

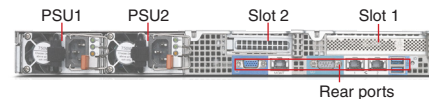
# ThinkServer RD350 Platform Specifications

Product Specifications Reference (PSREF)

| Components               | Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
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| Dimensions               | 1U rack. Height: 43 mm (1.7 in), width: 482 mm (19 in), depth: 781.5 mm (30.77 in)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| Weight                   | Minimum configuration: 13 kg (28.66 lb), maximum: 19.1 kg (42.11 lb)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| Processor                | Up to two <b>105W Intel Xeon E5-2600 v4 or E5-2600 v3</b> family processors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | <table><tr><td>E5-2660 v4</td><td>14C/2GHz/35MB/105W/DDR4-2400</td></tr><tr><td>E5-2650 v4</td><td>12C/2.2GHz/30MB/105W/DDR4-2400</td></tr><tr><td>E5-2640 v4</td><td>10C/2.4GHz/25MB/90W/DDR4-2133</td></tr><tr><td>E5-2630 v4</td><td>10C/2.2GHz/20MB/85W/DDR4-2133</td></tr><tr><td>E5-2623 v4</td><td>4C/2.6GHz/10MB/85W/DDR4-2133</td></tr><tr><td>E5-2620 v4</td><td>8C/2.1GHz/20MB/85W/DDR4-2133</td></tr><tr><td>E5-2609 v4</td><td>8C/1.7GHz/20MB/85W/DDR4-1866</td></tr><tr><td>E5-2603 v4</td><td>6C/1.7GHz/15MB/85W/DDR4-1866</td></tr><tr><td>E5-2650L v4</td><td>14C/1.7GHz/35MB/65W/DDR4-2400</td></tr><tr><td>E5-2630L v4</td><td>10C/1.8GHz/25MB/55W/DDR4-2133</td></tr><tr><td>E5-2660 v3</td><td>10C/2.6GHz/25MB/105W/DDR4-2133</td></tr><tr><td>E5-2650 v3</td><td>10C/2.3GHz/25MB/105W/DDR4-2133</td></tr><tr><td>E5-2640 v3</td><td>8C/2.6GHz/20MB/90W/DDR4-1866</td></tr><tr><td>E5-2630 v3</td><td>8C/2.4GHz/20MB/85W/DDR4-1866</td></tr><tr><td>E5-2623 v3</td><td>4C/3GHz/10MB/105W/DDR4-1866</td></tr><tr><td>E5-2620 v3</td><td>6C/2.4GHz/15MB/85W/DDR4-1866</td></tr><tr><td>E5-2609 v3</td><td>6C/1.9GHz/15MB/85W/DDR4-1600</td></tr><tr><td>E5-2603 v3</td><td>6C/1.6GHz/15MB/85W/DDR4-1600</td></tr><tr><td>E5-2650L v3</td><td>12C/1.8GHz/30MB/65W/DDR4-2133</td></tr><tr><td>E5-2630L v3</td><td>8C/1.8GHz/20MB/55W/DDR4-1866</td></tr></table> | E5-2660 v4                     | 14C/2GHz/35MB/105W/DDR4-2400             | E5-2650 v4              | 12C/2.2GHz/30MB/105W/DDR4-2400 | E5-2640 v4       | 10C/2.4GHz/25MB/90W/DDR4-2133 | E5-2630 v4                     | 10C/2.2GHz/20MB/85W/DDR4-2133 | E5-2623 v4   | 4C/2.6GHz/10MB/85W/DDR4-2133 | E5-2620 v4                        | 8C/2.1GHz/20MB/85W/DDR4-2133 | E5-2609 v4    | 8C/1.7GHz/20MB/85W/DDR4-1866 | E5-2603 v4                        | 6C/1.7GHz/15MB/85W/DDR4-1866 | E5-2650L v4               | 14C/1.7GHz/35MB/65W/DDR4-2400 | E5-2630L v4      | 10C/1.8GHz/25MB/55W/DDR4-2133 | E5-2660 v3    | 10C/2.6GHz/25MB/105W/DDR4-2133 | E5-2650 v3                               | 10C/2.3GHz/25MB/105W/DDR4-2133 | E5-2640 v3 | 8C/2.6GHz/20MB/90W/DDR4-1866 | E5-2630 v3 | 8C/2.4GHz/20MB/85W/DDR4-1866 | E5-2623 v3 | 4C/3GHz/10MB/105W/DDR4-1866 | E5-2620 v3 | 6C/2.4GHz/15MB/85W/DDR4-1866 | E5-2609 v3 | 6C/1.9GHz/15MB/85W/DDR4-1600 | E5-2603 v3 | 6C/1.6GHz/15MB/85W/DDR4-1600 | E5-2650L v3 | 12C/1.8GHz/30MB/65W/DDR4-2133 | E5-2630L v3 | 8C/1.8GHz/20MB/55W/DDR4-1866 |
|                          | E5-2660 v4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 14C/2GHz/35MB/105W/DDR4-2400   |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2650 v4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 12C/2.2GHz/30MB/105W/DDR4-2400 |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2640 v4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10C/2.4GHz/25MB/90W/DDR4-2133  |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2630 v4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10C/2.2GHz/20MB/85W/DDR4-2133  |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2623 v4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4C/2.6GHz/10MB/85W/DDR4-2133   |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2620 v4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8C/2.1GHz/20MB/85W/DDR4-2133   |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2609 v4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8C/1.7GHz/20MB/85W/DDR4-1866   |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2603 v4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6C/1.7GHz/15MB/85W/DDR4-1866   |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2650L v4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 14C/1.7GHz/35MB/65W/DDR4-2400  |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2630L v4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10C/1.8GHz/25MB/55W/DDR4-2133  |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2660 v3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10C/2.6GHz/25MB/105W/DDR4-2133 |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2650 v3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10C/2.3GHz/25MB/105W/DDR4-2133 |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2640 v3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8C/2.6GHz/20MB/90W/DDR4-1866   |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2630 v3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8C/2.4GHz/20MB/85W/DDR4-1866   |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2623 v3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4C/3GHz/10MB/105W/DDR4-1866    |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2620 v3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6C/2.4GHz/15MB/85W/DDR4-1866   |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2609 v3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6C/1.9GHz/15MB/85W/DDR4-1600   |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | E5-2603 v3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6C/1.6GHz/15MB/85W/DDR4-1600   |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| E5-2650L v3              | 12C/1.8GHz/30MB/65W/DDR4-2133                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| E5-2630L v3              | 8C/1.8GHz/20MB/55W/DDR4-1866                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| Chipset                  | Intel C610 Series Chipset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| Memory DIMMs             | 16 DIMM sockets. 4 channels per processor, 2 DIMMs per channel.<br><b>RDIMM</b> or <b>LRDIMM</b> (cannot be intermixed), DDR4-2133 or DDR4-2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| Memory capacity          | 512GB (RDIMM, 32GB x 16)/1024GB (LRDIMM, 64GB x 16), 2nd CPU is needed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| Memory protection        | ECC, memory mirroring, lockstep, and memory sparing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| RAID controller          | <table><tr><th>RAID controller</th><th>Drive type</th><th>RAID support</th><th>Compatible models</th></tr><tr><td>Onboard RAID110i</td><td>6Gbs SATA</td><td>0/1/10,<br/>5 with optional key</td><td>4x3.5" HS/ES, 8x2.5" HS</td></tr><tr><td>RAID500 PCIe</td><td>6Gbs SAS/SATA</td><td>0/1/10,<br/>5/50 with optional key</td><td>4x3.5" HS, 8x2.5" HS</td></tr><tr><td>RAID520i PCIe</td><td>12Gbs SAS/SATA</td><td>0/1/10,<br/>5/50 with optional key</td><td>4x3.5" HS/ES, 8x2.5" HS</td></tr><tr><td>RAID710 PCIe (1GB memory)</td><td>6Gbs SAS/SATA</td><td>0/1/10/5/50/6/60</td><td>4x3.5" HS, 8x2.5" HS</td></tr><tr><td>RAID720i PCIe</td><td>12Gbs SAS/SATA</td><td>0/1/10/5/50,<br/>6/60 with optional cache</td><td>4x3.5" HS/ES, 8x2.5" HS</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RAID controller                | Drive type                               | RAID support            | Compatible models              | Onboard RAID110i | 6Gbs SATA                     | 0/1/10,<br>5 with optional key | 4x3.5" HS/ES, 8x2.5" HS       | RAID500 PCIe | 6Gbs SAS/SATA                | 0/1/10,<br>5/50 with optional key | 4x3.5" HS, 8x2.5" HS         | RAID520i PCIe | 12Gbs SAS/SATA               | 0/1/10,<br>5/50 with optional key | 4x3.5" HS/ES, 8x2.5" HS      | RAID710 PCIe (1GB memory) | 6Gbs SAS/SATA                 | 0/1/10/5/50/6/60 | 4x3.5" HS, 8x2.5" HS          | RAID720i PCIe | 12Gbs SAS/SATA                 | 0/1/10/5/50,<br>6/60 with optional cache | 4x3.5" HS/ES, 8x2.5" HS        |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | RAID controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Drive type                     | RAID support                             | Compatible models       |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | Onboard RAID110i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6Gbs SATA                      | 0/1/10,<br>5 with optional key           | 4x3.5" HS/ES, 8x2.5" HS |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | RAID500 PCIe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6Gbs SAS/SATA                  | 0/1/10,<br>5/50 with optional key        | 4x3.5" HS, 8x2.5" HS    |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | RAID520i PCIe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12Gbs SAS/SATA                 | 0/1/10,<br>5/50 with optional key        | 4x3.5" HS/ES, 8x2.5" HS |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | RAID710 PCIe (1GB memory)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6Gbs SAS/SATA                  | 0/1/10/5/50/6/60                         | 4x3.5" HS, 8x2.5" HS    |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | RAID720i PCIe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12Gbs SAS/SATA                 | 0/1/10/5/50,<br>6/60 with optional cache | 4x3.5" HS/ES, 8x2.5" HS |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
|                          | Optional cache for RAID 710: CacheVault flash cache with super capacitor, CacheCade Pro, or FastPath.<br>Optional cache for RAID 720/AnyRAID 720i and 720ix: 1GB read-only memory or 1GB/2GB/4GB flash with super capacitor. Flash options include CacheVault, CacheCade Pro, and FastPath. 720ix must have cache.<br><i>Note: RAID 50 and 60 are available on 8 x 2.5" models only.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| Disk drive bays          | Up to 4x3.5" hot-swap, 4x3.5" easy-swap, or 8x2.5" hot-swap disk bays on front. Supports external RDX tape drive via USB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| Maximum internal storage | 3.5" model: up to 32TB with 7.2K SATA or SAS HDD, up to 7.2TB with 10K SAS HDD, up to 2.4TB with 15K SAS HDD, or up to 6.4TB with SATA SSD.<br>3.5" ES model: up to 12TB with 7.2K SATA, up to 24TB with 7.2K SAS.<br>2.5" model: up to 16TB with 7.2K SATA HDD, up to 14.4TB with 10K SAS HDD, up to 4.8TB with 15K SAS HDD, or up to 12.8TB with SATA or SAS SSD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| SD module                | Up to 2 SDHC flash cards via optional SD module, 8GB or 32GB each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| Optical drive            | Optional one 9.5mm optical, DVD-ROM or DVD±RW.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| Network interfaces       | One dedicated management port, two Gigabit Ethernet ports (RJ-45). Supports optional discrete network adapters via PCIe slots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| Security features        | Power-on and administrator password. Optional TPM (TCG 1.2-compliant)<br>Supports ThinkServer System Manager (TSM), optional TSM Premium.<br>UEFI. Onboard Aspeed AST2400 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC).<br>Control Panel LEDs shows the status of power, ID, network, system.<br>Supports ThinkServer management software: Diagnostics, Deployment Manager, Energy Manager, System Manager, Partner Pack for VMware vCenter and Microsoft System Center Operations Manager, Power Planner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |
| Systems management       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |                                          |                         |                                |                  |                               |                                |                               |              |                              |                                   |                              |               |                              |                                   |                              |                           |                               |                  |                               |               |                                |                                          |                                |            |                              |            |                              |            |                             |            |                              |            |                              |            |                              |             |                               |             |                              |

| Components                  | Specification                                                                                                                                                                                                                                                     |                                      |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------|------|--|--|------|------|------|--------|---|---|---|--------|---|---|---|
| Operating systems supported | Microsoft Windows Server 2016/2012 R2/2012/2008 R2. Windows Small Business Server 2011. Red Hat Enterprise Linux 6.5/6.6/7. SUSE Linux Enterprise Server 11. VMware vSphere (ESXi) 5.1 P5/5.5 U2/6.0                                                              |                                      |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
| Base warranty               | 1 or 3-year limited onsite service with 9x5/NBD                                                                                                                                                                                                                   |                                      |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
| Power supply                | Up to two redundant hot-swap 450W/550W/750W power supplies. 450 W is 80 PLUS Gold qualified. 550W is 80 PLUS Platinum qualified. 750W is 80 PLUS Platinum or Titanium qualified. 750W Titanium is 200V - 240V, others are 110V - 240V.                            |                                      |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
|                             | <table><tr><td>Disk bay configuration</td><td colspan="3">PSU requirements</td></tr><tr><td></td><td>450W</td><td>550W</td><td>750W</td></tr><tr><td>4x3.5"</td><td>•</td><td>•</td><td>•</td></tr><tr><td>8x2.5"</td><td>•</td><td>•</td><td>•</td></tr></table> | Disk bay configuration               | PSU requirements |      |  |  | 450W | 550W | 750W | 4x3.5" | • | • | • | 8x2.5" | • | • | • |
|                             | Disk bay configuration                                                                                                                                                                                                                                            | PSU requirements                     |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
|                             |                                                                                                                                                                                                                                                                   | 450W                                 | 550W             | 750W |  |  |      |      |      |        |   |   |   |        |   |   |   |
| 4x3.5"                      | •                                                                                                                                                                                                                                                                 | •                                    | •                |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
| 8x2.5"                      | •                                                                                                                                                                                                                                                                 | •                                    | •                |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
|                             |                                                                                                                                                                                                                                                                   |                                      |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
|                             |                                                                                                                                                                                                                                                                   |                                      |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
| Graphics                    | Onboard Aspeed AST2400 with 16MB memory, one DisplayPort on front, one VGA on rear.                                                                                                                                                                               |                                      |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
| Front ports                 | Two USB 2.0. One DisplayPort (one VGA on E5-2600 v4 models instead)                                                                                                                                                                                               |                                      |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
| Rear ports                  | One VGA, two USB 3.0, one RJ-45 (dedicated mgmt), two ethernet, one serial (9-pin)                                                                                                                                                                                |                                      |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
| Cooling                     | 6 (5+1, dual processors) or 4 (3+1, single processor) fans, non-hot swap                                                                                                                                                                                          |                                      |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
| Noise emissions             | Operating: < 6.5 Bels. Idle: < 5.4 Bels (Maximum configuration)                                                                                                                                                                                                   |                                      |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
| Environmental specification | Temperature - operating                                                                                                                                                                                                                                           | 50 °F to 95 °F (10 °C to 35 °C)      |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
|                             | Temperature - non operating (no package)                                                                                                                                                                                                                          | -10 °C to 60 °C                      |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
|                             | Temperature - non operating (with package)                                                                                                                                                                                                                        | -40 °C to 70 °C                      |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
|                             | Altitude - operating                                                                                                                                                                                                                                              | (Unpressurized): 0-10000ft (0-3048m) |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
|                             | Humidity - operating                                                                                                                                                                                                                                              | 8%~90%, non-condensing               |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |
|                             | Humidity - storage (with package)                                                                                                                                                                                                                                 | 8%~90%, non-condensing               |                  |      |  |  |      |      |      |        |   |   |   |        |   |   |   |

## Expansion slots



Up to two PCIe 3.0 x 16 slots:

|                                   |                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------|
| Slot 1                            | PCIe 3.0 x16, half length, full height, by CPU1                                          |
| Slot 2 for dual processors model  | PCIe 3.0 x16, low-profile, half length, requires 2nd riser card and 2nd CPU              |
| Slot 2 for single processor model | PCIe 3.0 x16 (x8 electrical), low-profile, half length, by CPU1, requires 2nd riser card |

For a list of all supported options, please see [https://download.lenovo.com/pccbbs/options\\_iso/ocm\\_september\\_2016\\_thinkserver.xlsx](https://download.lenovo.com/pccbbs/options_iso/ocm_september_2016_thinkserver.xlsx) sheet

| Model             | 70QM000VEA                                 |
|-------------------|--------------------------------------------|
| Product           | ThinkServer RD350                          |
| Region            | EMEA                                       |
| Machine Type      | 70QM                                       |
| TopSeller         | TopSeller                                  |
| Processor         | 1xE5-2630 v4 10C/2.2GHz/20MB/85W/DDR4-2133 |
| 2nd CPU           | 4XG0G89074                                 |
| Memory            | 1x8GB RDIMM DDR4-2400 ECC                  |
| RAID Controller   | 720i PCIe                                  |
| Disk Bays         | 8x2.5" HS                                  |
| Storage           | Open                                       |
| Slots             | 1xFHHL                                     |
| Optical           | 9.5mm DVD±RW                               |
| Add-on NIC        | None                                       |
| TPM               | None                                       |
| System Management | TSM                                        |
| Operating System  | None                                       |
| Warranty          | 3-year                                     |
| Power Supply      | 450Wx1 Gold                                |
| Ann Date (mm/yy)  | 04/16                                      |



