FUJITSU

# Data Sheet
## FUJITSU Thin Client FUTRO S920

The Expandable Multi-talent

The individually configurable FUJITSU FUTRO S920 has all the flexibility you need to optimize secure server-based computing and desktop virtualization. This simple, reliable yet powerful front-end device is easy to integrate and manage. It also offers expansion slots and unique connectivity options to maximize user convenience. Plus, its long lifecycle helps you minimize TCO.

**Green technology**
Your company's contribution to environmental protection
■ A modern, environmentally conscious product concept - from development to recycling

**Relaxed working**
Quiet system for a pleasant working environment
■ Flash memory and passive cooling concept

**Energy efficiency**
Saves energy and reduces $CO_2$ emissions
■ Integrated system concept with power-saving components

**Manageability**
Easy administration while reducing total cost of ownership
■ Outstanding manageability solution

**Backpack solution**
Less space needed
■ The FUJITSU FUTRO S920 can be mounted behind a display

# Technical details Components

| | |
|---|---|
| **Memory modules** | 2 GB (1 module(s) 2 GB) DDR3, 1,600 MHz, PC3-12800, SO DIMM |
| | 4 GB (1 module(s) 4 GB) DDR3, 1,600 MHz, PC3-12800, SO DIMM |
| **Graphics** | DVI-I to VGA Adapter |
| | DP to DVI-D (single link) Adapter Cable |
| | AMD FirePro™ W2100, 2 GB |
| **Hard disk drives (internal)** | mSATA, 64 GB, Flash drive (MLC technology) |
| | mSATA, 32 GB, Flash drive (MLC technology) |
| | mSATA, 16 GB, Flash drive (MLC technology) |
| | mSATA, 8 GB, Flash drive (MLC technology) |
| | mSATA, 8 GB, Flash drive (SLC technology) |
| | mSATA, 4 GB, Flash drive (SLC technology) |
| | mSATA, 2 GB, Flash drive (SLC technology) |
| **Hard disk notes** | Ex-factory, the flash module isn't write protected when ordered with Windows to allow an easy configuration to customer needs.<br>Fujitsu recommends to switch on the write filter once the configuration is finished.<br>This is mandatory for a highest level of security (e.g. against virus attacks) and enhances durability of the flash module.<br>One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. |
| **Interface add on cards/components (optional)** | |
| | PCIe Riser |
| | Parallel Port |
| | Internal speaker |
| | Intel® Dual Band Wireless-AC 7260 |
| | Dual serial card PCIe x1 |
| | 3rd COM port (RS232) |
| | 2nd LAN/Power-over-Ethernet module |
| **Base unit** | FUTRO S920 |
| **Operating system and software (Linux)** | |
| **Operating system** | eLux™ RP – Embedded Linux |
| **Functions** | eLux™ RP 5:<br>BaseOS eLux™ RP, V5.1.0-1<br>ICA client, V13.3.0.1-6<br>VMware® Horizon View Client, V5.7.1.1-1 (optional)<br>FreeRDP, V1.1.0.2-6<br>Adobe® Flash Player 11 for Linux, V11.2.202.548-1<br>Mozilla Firefox® Browser, V38.3.0-1<br>VPN System, V5.1-1<br>BIOS tools for remote BIOS updates via Scout Enterprise, V3.1-2<br>Updates and all available software packages for eLux™ RP 5 can be downloaded from www.myelux.com |
| **Manageability** | Scout Enterprise, flash memory management, embedded operating system update and system monitoring, BIOS update, managing devices by location, group or user, individual operating system composition with ELIAS (Scout Enterprise license required) |
| **Operating system and software (Windows)** | |
| **Operating system** | Windows Embedded Standard 7 (WS7P) |

## Operating system and software (Windows)

| | |
|---|---|
| Functions | Language: ENG, GER, FRA, ITA, ESP<br>Citrix Receiver 4.2.100<br>VMware View Horizon Client 3.4.0<br>RDP-Client Protocol V 8.1 with RemoteFX<br>DotNET Framework 2.0, 3.0, 3.5, 4.0, 4.5.2<br>Internet Explorer 11<br>Media Player 12<br>Premium Multimedia Codecs<br>Adobe Flashplayer 16.0.0.235<br>Security (SmartCard Reader support)<br>FBWF File Base Write Filter<br>EWF Enhanced Write Filter<br>Visual C++ 2008, 2010, 2012, 2013 Redistributable<br>Scout Agent for WES 7 (1.2.1) |
| Manageability | Flash memory management, embedded operating system update and system monitoring, managing devices by location, group or user, cloning functionality and remote updates for applications and patches |
| Operating system | Windows® 10 IoT Enterprise (Win10IoT) |
| Functions | Language: ENG, GER, FRA, ITA, ESP, DUT<br>Citrix Receiver 4.4.1000 (14.4.1000.16)<br>VMware Horizon Client 4.1.0.1487<br>RDP-Client Protocol V 10.0 with RemoteFX<br>DotNET Framework 2.0, 3.0, 3.5, 4.0, (4.5.1, 4.5.2,) 4.6<br>Internet Explorer 11.0.10240.16942 Update 11.0.32 (KB3160005)<br>Media Player 12.0.10240.16384<br>Adobe Flash Player 22.0.0.192<br>Security (SmartCard Reader support)<br>USB CD-ROM support<br>Unified Write Filter (UWF)<br>Visual Studio C++ Restributable 2008 (x86), 2010, 2012, 2013<br>Scout Agent Windows (1.3.1.130)<br>WEDM Microsoft Windows Embedded Device Manager<br>TigerVNC (for mirroring) 1.4.2 |
| Manageability | Flash memory management, embedded operating system update and system monitoring, managing devices by location, group or user, cloning functionality and remote updates for applications and patches |

## Mainboard

| | |
|---|---|
| Mainboard type | D3313 |
| Formfactor | miniITX |
| Processor options | AMD G-Series GX-415GA (1.50 GHz, Quad Core, 2 MB, AMD Radeon™ HD 8330E) |
| Processor options | AMD G-Series GX-424CC (2.40 GHz, Quad Core, 2 MB, AMD Radeon™ R5E) |
| Processor options | AMD G-Series GX-222GC (2.20 GHz, up to 2.4 GHz, Dual Core, 1 MB, AMD Radeon™ R5E) |
| Processor quantity maximum | 1 |
| LAN | Built-in 10/100/1,000 MBit/s |
| BIOS features | BIOS Flash EPROM update by software<br>Recovery BIOS<br>Unified Extensible Firmware Interface (UEFI) |
| Audio type | On board |
| Audio codec | Realtek ALC671 |

## Slots

| | |
|---|---|
| PCI-Express x4 (mech x16) | 1 x (155 mm / ) low profile (optional) |

## Interfaces

| | |
|---|---|
| Audio: line-in | 1 |
| Audio: line-out | 1 |
| Front audio: headphone | 1 |
| Front audio: line-in / microphone | 1 |
| USB 2.0 total | 5 |
| USB 3.1 Gen1 (USB 3.0) total | 2 |
| USB front | 2 |

## Interfaces

| | |
|---|---|
| USB rear | 4 |
| USB internal | 1 (9 pin header) |
| DisplayPort | 1 DP |
| DVI | 1 DVI-I (integrated VGA can be used with DVI-VGA adapter) |
| Serial (RS-232) | 2 external, 1 additional optional |
| Mouse / Keyboard (PS/2) | 2 |
| Ethernet (RJ-45) | 1 |
| Parallel | 1 (optional) |

## Graphics

| | |
|---|---|
| Graphics brand name | AMD Radeon™ HD 8330E (in combination with AMD G-Series GX-415GA), AMD Radeon™ R5E (in combination with AMD G-Series GX-222GC), AMD Radeon™ R5E (in combination with AMD G-Series GX-424CC) |
| Graphics color depth | 32 bit colors |
| Shared video memory | up to 2 GB, BIOS default 256 MB |
| TFT resolution (VGA) | up to 1,920 x 1,200 pixel |
| TFT resolution (DVI) | up to 1,920 x 1,200 pixel |
| TFT resolution (DisplayPort) | up to 3840 x 2160 @ 30 Hz |
| Graphics features | DirectX 11<br>Shader Model 5<br>Open CL® 1.1 (depending on CPU)<br>OpenGL® 4.1 |
| Graphics notes | Graphics resolution depending on operating system and management solution.<br>3840 x 2160 @ 30 Hz requires AMD GX-222GC or AMD GX-424CC processors and eLux™ RP 5 or Windows Embedded 7 (or newer) operating system |

## Network

| | |
|---|---|
| Network | TCP/IP with DNS and DHCP<br>Point-to-Point protocol<br>Supported Citrix Load Balancing over ICA<br>DHCP support for automatic firmware upgrades and unit configuration<br>Multiple master browser support on ICA |

## Hard disk

| | |
|---|---|
| Hard disk notes | Ex-factory, the flash module isn't write protected when ordered with Windows to allow an easy configuration to customer needs.<br>Fujitsu recommends to switch on the write filter once the configuration is finished.<br>This is mandatory for a highest level of security (e.g. against virus attacks) and enhances durability of the flash module.<br>One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. |

## Electrical values

| | |
|---|---|
| Power consumption long idle | 4.5 W |
| Power consumption sleep mode power | 0.72 W (WoL enabled) |
| Power consumption off mode power | 0.33 W (WoL disabled) |
| Power consumption note | Consumption can differ depending on selected hardware, software and settings. |
| Rated voltage range | 100 V - 240 V (AC Input) |
| Rated frequency range | 50 Hz - 60 Hz |
| Operating voltage range | 100 V - 240 V (AC Input) |
| Operating line frequency range | 50 Hz - 60 Hz |
| Power consumption for standard configuration with Windows Embedded Standard | |

## Dimensions / Weight / Environmental

| | |
|---|---|
| Dimensions (W x D x H) | 52 x 195 x 251 mm |
| Dimension with stand  (W x D x H) | 97 x 195 x 267 mm |
| Operating position | Vertical / horizontal |
| Weight | 1.3 kg |
| Weight notes | Actual weight may vary depending on configuration |

## Dimensions / Weight / Environmental

| | |
|---|---|
| Operating ambient temperature | 10 - 35 ℃ |
| Operating relative humidity | 5 - 85 % (relative humidity) |

## Compliance

| | |
|---|---|
| Product | FUTRO S920 |
| Model | TCS-D3313 |
| Europe | EPEAT® Gold (without WLAN and for dedicated regions, for details see http://www.epeat.net) |
| Global | ENERGY STAR® 6.1 qualified (in dedicated regions) |
| Compliance notes | Energy Star compliance may vary depending on actual configuration |
| Compliance link | http://globalsp.ts.fujitsu.com/sites/certificates |

## Security

| | |
|---|---|
| Physical Security | Kensington Lock support <br> Intrusion switch |
| System and BIOS Security | Write protection for the Flash module <br> Optional: Trusted platform module (TPM 1.2) |
| User Security | Access protection via internal SmartCard reader (optional) |

## Warranty

| | |
|---|---|
| Warranty period | 2 years (depending on country) |
| Warranty type | Bring-in Service (for countries within region EMEIA, for all other countries depending on local regulations) |
| Warranty Terms &  Conditions | http://support.ts.fujitsu.com/warranty |

## Product Support Services - the perfect extension

| | |
|---|---|
| Recommended Service | 9x5, Onsite Response Time: Next Business Day |
| Spare Parts availability | 5 years after end of product life |
| Service Weblink | http://www.fujitsu.com/fts/services/support |

# Recommended Accessories

| | | | |
|---|---|---|---|
| Midspan Micro Semi PD-9501G | | Midspan Micro Semi PD-9501G is a single port Power over Ethernet solution, specially designed to power IEEE 802.11n and other high power Ethernet end Terminals with 60W. <br> It is fully backward compatible and easy to implement in your existing Ethernet infrastructure. | Order Code: <br> S26361-F1744-L10 |
| Midspan Micro Semi PD-9512G | | Midspan Micro Semi PD-9512G is a Power over Ethernet solution with 12 ports, -72W per port, specially designed to power network devices like cameras, access control systems, Thin Clients and other Ethernet end terminals. It is fully backward compatible and supports IPv4 and IPv6. | Order Code: <br> S26361-F1744-L20 |
| Universal Monitor Stand | | Save desk space without compromising performance or productivity with the Universal Monitor Stand that brings together a FUJITSU Desktop ESPRIMO Q mini PC or FUJITSU Thin Client FUTRO and a VESA compatible FUJITSU Display. For optimum ergonomics the height and tilt angle of the display can be adjusted, helping you to stay productive and comfortable, whilst hassle-free installation of the devices on the stand makes the life of your IT department easier. | Order Code: <br> S26361-F2601-L700 |

# More information

### Fujitsu OPTIMIZATION Services

In addition to FUJITSU Thin Client FUTRO S920, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

### Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

### Computing Products

www.fujitsu.com/global/products/computing/

### Software

www.fujitsu.com/software/

### More information

Learn more about FUJITSU Thin Client FUTRO S920, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts/FUTRO

### Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT. Please find further information at http://www.fujitsu.com/global/about/environment



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