

# 24GHz Backhaul Range

SIL U2430-PCP  
SIL U2460-PCP  
SIL U2490-PCP



SIL U2430-PCP  
24GHz up to 5km



SIL U2460-PCP  
24GHz up to 10km

SIL U2490-PCP  
24GHz up to 20km

Transmission distance is antenna dependent.  
Antenna options available in 30cm,60cm and 90cm Ø

## 24GHz unlicensed Wireless Backhaul

### OVERVIEW

The SilverNet 24GHz Unlicensed Backhaul Range is a high capacity wireless outdoor bridge that has been optimised for interference-free operation with high availability and carrier grade full duplex capacity with no cost of licensing and easy installation.

The 24GHz link comes complete with ruggedised brackets and PoE injector and also includes 2 x 25 metre external grade Ethernet cable.  
The range includes a **2 year** return to factory warranty as standard.

### Features

- 24GHz Frequency link available
- Point-to-Point up to 20km
- Up to 500Mbps full duplex transmission
- Designed for Outdoor Applications with rugged Case Design
- ACM Adaptive code and modulation
- 4 QAM to 1024 QAM Modulations
- Gigabit Ethernet
- Power over Ethernet (PoE)
- WEB Management
- Ultra low latency FDD transmission
- Multi layer header compression
- Optimised latency and PDV transport
- Extended buffer for TCP/IP efficiency in LTE networks
- Integrated Antenna Options 30cm/60cm (special order 90cm)
- SilverView Monitoring Software Included
- 2 Year warranty

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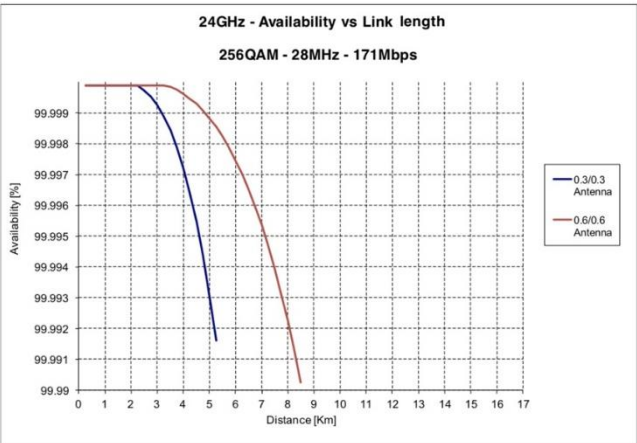
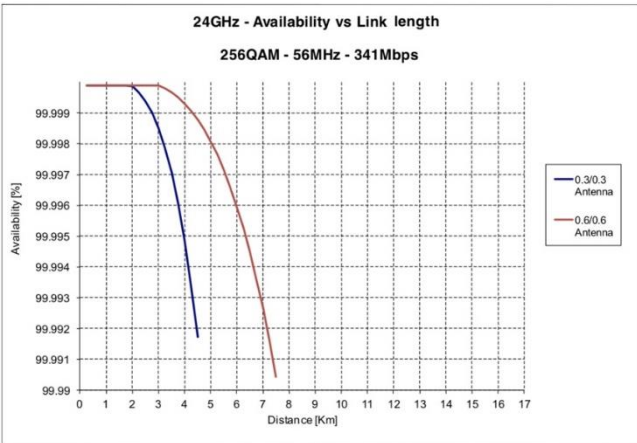
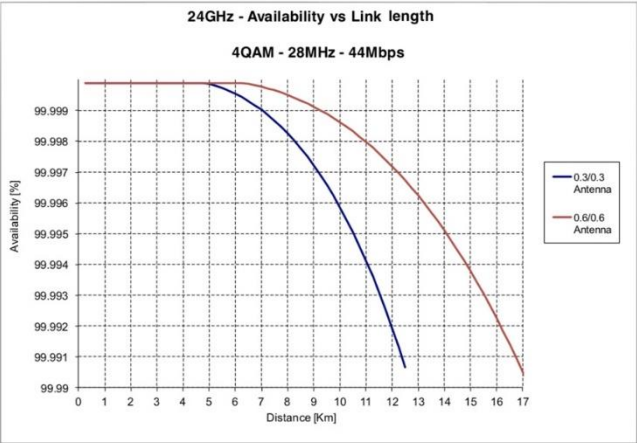


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# Technical Specifications

|                                              |                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Backhaul Range                               | 24GHz Unlicensed Link<br>SIL U2430-PCP<br>SIL U2460-PCP<br>SIL U2490-PCP                                                                                                                                                                                                                                                         |
| Radio Specification                          |                                                                                                                                                                                                                                                                                                                                  |
| Frequency                                    | 24GHz                                                                                                                                                                                                                                                                                                                            |
| Antenna                                      | 30/60/90 cm                                                                                                                                                                                                                                                                                                                      |
| Distance                                     | 5km/10km/20km (Europe)<br>800m (UK)                                                                                                                                                                                                                                                                                              |
| Configurations                               | (1+0), 2x(1 +0)                                                                                                                                                                                                                                                                                                                  |
| Modulation                                   | 4/16/32/64/128/512/1024 QAM (with ACM)<br>With hitless and Adaptive Code Modulation                                                                                                                                                                                                                                              |
| Max Throughput                               | 500Mbps                                                                                                                                                                                                                                                                                                                          |
| Interfaces                                   | 2xGE electrical                                                                                                                                                                                                                                                                                                                  |
| Output Power (dBm)                           | 4 QAM +21<br>16 QAM +19<br>32 QAM +17<br>64 QAM +17<br>128 QAM +17<br>256 QAM +17<br>512 QAM +17<br>1024 QAM +16                                                                                                                                                                                                                 |
| Receiver Sensitivity (dBm)                   | 4 QAM -88<br>16 QAM -81<br>32 QAM -76.5<br>64 QAM -73.5<br>128 QAM -70.5<br>256 QAM -67<br>512 QAM -67.5<br>1024 QAM -60.5                                                                                                                                                                                                       |
| Frequency Stability                          | ±5 ppm                                                                                                                                                                                                                                                                                                                           |
| ATPC                                         | 20 dB range implemented in 1dB steps                                                                                                                                                                                                                                                                                             |
| RTPC                                         | Up to 20 dB in 1 dB step, software programmable                                                                                                                                                                                                                                                                                  |
| Service channels                             | VoIP                                                                                                                                                                                                                                                                                                                             |
| Management Interfaces                        | Web GUI, In Band management, SilverView NMS                                                                                                                                                                                                                                                                                      |
| Mechanical Dimensions ODU (WxHxD)            | 254 x 254 x 154 (mm) + Antenna                                                                                                                                                                                                                                                                                                   |
| Power Supply                                 | 48vPoE +                                                                                                                                                                                                                                                                                                                         |
| Power Consumption (per terminal)             | ≤ 35W                                                                                                                                                                                                                                                                                                                            |
| ODU weather proofing class                   | IP65                                                                                                                                                                                                                                                                                                                             |
| ODU operational temperature (standard range) | -35°C to + 55°C                                                                                                                                                                                                                                                                                                                  |
| Remote Connection                            | Web, Telnet, ssh, SilverView Monitoring                                                                                                                                                                                                                                                                                          |
| Ethernet Characteristics                     | MAC address Switching, ageing and learning<br>VLAN/VLAN stacking (IEE 802.1ad-QinQ)<br>Ethernet QoS (IEEE 802.1p)<br>Flow Control (IEEE 802.3X)<br>RMON Statistics (RFC 2819)<br>LLF (Link Loss Forwarding)<br>LAG (Link Aggregation IEE 802.3ad)<br>ETH OAM (IEEE 802.1ag/ ITU-T Y.1731)<br>RSTP (Rapid Spanning Tree Protocol) |
| Compliant With                               | ETSI, FCC                                                                                                                                                                                                                                                                                                                        |
| What's in the box                            | 2 x RF Heads (High band/Low band), 2 x Antenna (30/60/90cm), 2 x Heavy Duty Mounting Brackets, 2 x Grounding Kits, 2 x PoE+ Injectors                                                                                                                                                                                            |

# 24Ghz Range / Throughput / Availability





# Typical Application



| Part Code     | Description                                                    |
|---------------|----------------------------------------------------------------|
| SIL U2430-PCP | 24GHz, 500Mbps 30cm Dish full duplex capacity link, up to 5km  |
| SIL U2460-PCP | 24GHz, 500Mbps 60cm Dish full duplex capacity link, up to 10km |
| SIL U2490-PCP | 24GHz, 500Mbps 90cm Dish full duplex capacity link, up to 20km |