

TreuMex S5010 Series ODU

Subscriber Unit
TM-S5010-SE



Product Description

TM-S5010-SE Subscriber Unit (SU) provides high capacity access connectivity of up to 10 Mbps net aggregate throughput.

TM-S5010-SE supports 4.9 to 5.9 GHz and complies with FCC/IC, WPC, Universal & MII regulations.

The radio is connectorized for external antenna (2 x N-type).

Product Highlights

- Up to 10 Mbps net aggregated throughput
- Long range - Up to 40 km / 25 miles
- Guaranteed Service level Agreement (SLA) per SU
- Exceptional short and constant latency
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable operation in harsh conditions, extreme temperatures and non-line-of-sight scenarios
- Ease of operation and maintenance

Product Specifications:

| | | | | | |
|--------------------------------|---|-----------------------------------|-----------------------------------|-----------------------------------|---|
| Configuration | | | | | |
| Architecture | Outdoor Unit connectorized for external antenna (2 x N-type) | | | | |
| PoE to ODU Interface | Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT | | | | |
| Radio | | | | | |
| Max Capacity | 10 Mbps net aggregate throughput; Upgradable to 100 Mbps with license key | | | | |
| Range | Up to 40 km / 25 miles | | | | |
| Channel Bandwidth | Configurable: 5, 10, 20, 40 MHz (for the default band) | | | | |
| Modulation | 2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM) | | | | |
| Adaptive Modulation & Coding | Supported | | | | |
| DFS | Supported (FCC/IC) | | | | |
| Diversity | Supported | | | | |
| Max Tx Power | 25 dBm | | | | |
| Duplex Technology | TDD | | | | |
| Error Correction | FEC k = 1/2, 2/3, 3/4, 5/6 | | | | |
| Encryption | AES 128; FIPS 197 | | | | |
| Support Indoor units | TreuPoz PoE Devices (TP-POE-AC-GBE-X) | | | | |
| Uplink / Downlink Allocation | Configurable: Symmetric or Asymmetric | | | | |
| Layer 2 | HUB Mode | | | | |
| QoS | Packet classification to 4 priority queues according to 802.1P or Diffserv | | | | |
| VLAN Support | 802.1Q, QinQ, 4094 VLANs | | | | |
| ODU Management | IPv4/IPv6 dual-stack; SNMP v1 and v3; HTTP using web browser | | | | |
| Supported Bands | | | | | |
| Band | Channel BW 5MHz [GHz] | Channel BW 10MHz [GHz] | Channel BW 20MHz [GHz] | Channel BW 40MHz [GHz] | Radio Compliance |
| 5.8 GHz FCC/IC (default) | 5.7275-5.8475 | 5.725-5.850 | 5.725-5.850 | 5.725-5.850 | FCC 47CFR Part 15.247; IC RSS-210 |
| 5.8 GHz WPC | 5.8275-5.8725 | 5.825-5.875 | 5.825-5.875 | 5.825-5.875 | WPC (India) G.S.R 38(E) dated 19 January, 2007 Notification |
| 5.4 GHz Universal | 5.4725-5.7225 | 5.470-5.725 | 5.465-5.730 | 5.455-5.740 | Universal |
| 5.1 GHz Universal | 5.1475-5.3375 | 5.145-5.340 | 5.140-5.345 | 5.130-5.355 | Universal |
| 5.9 GHz Universal | 5.7275-5.9525 | 5.725-5.955 | 5.720-5.960 | 5.710-5.970 | Universal |
| 5.8 GHz MII | 5.7375-5.8375 | 5.735-5.840 | 5.730-5.845 | 5.720-5.855 | CMIIT RTA |
| 4.9 GHz Universal | 4.8975-4.9925 | 4.895-4.995 | 4.890-5.000 | 4.880-5.000 | Universal |
| 4.9 GHz FCC/IC | 4.9425-4.9875 | 4.940-4.990 | 4.940-4.990 | - | FCC 47CFR Part 90 Subpart Y; IC RSS-111 |
| 5.4 GHz FCC/IC | 5.4775-5.7175 | 5.480-5.715 | 5.480-5.715 | 5.480-5.715 | FCC 47CFR Part 15.407; IC RSS-210 |
| 5.2 GHz FCC/IC | 5.2525-5.3475 | 5.255-5.345 | 5.255-5.345 | 5.255-5.345 | FCC 47CFR Part 15.407; IC RSS-210 |
| 5.0 GHz Universal | 4.9975-5.1525 | 4.995-5.155 | 4.990-5.160 | 4.980-5.170 | Universal |
| 5.2 GHz FCC/IC | 5.2525-5.8475 | 5.255-5.850 | 5.255-5.850 | 5.255-5.850 | FCC 47CFR Part 15.407; IC RSS-210 |
| 5.1 GHz FCC/IC | 5.1575-5.2475 | 5.160-5.245 | 5.160-5.245 | 5.155-5.250 | FCC 47CFR Part 15.407; IC RSS-210 |
| Physical Specifications | | | | | |
| ODU Dimensions | 21(w) x 17(h) x 7(d) cm | | | | |
| ODU Weight | 1.2 kg / 2.65 lbs | | | | |
| Power and Environmental | | | | | |
| Power Feeding | Power provided over ODU-IDU cable | | | | |
| Power Consumption | <12W | | | | |
| Operating Temperatures | -35°C to 60°C / -31°F to 140°F | | | | |
| Humidity | 100% condensing, IP67 (totally protected against dust and against immersion up to 1m) | | | | |
| Compliance | | | | | |
| FCC/IC (cTUVus) | UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22 | | | | |
| ETSI | EN/IEC 60950-1, EN/IEC 60950-22 | | | | |
| FCC | 47 CFR Class B, Part15, Subpart B | | | | |
| ETSI | EN 300 386, EN 301 489-1, EN 301 489-4 | | | | |
| CAN/CSA-CEI/IEC | CISPR 22-04 Class B | | | | |

Ordering Info

Part Number: **TM-S5010-SE**

Description: **TreuNetz - TreuMex S5010 Series ODU**, connectorized for external antenna (2 x N-type), supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz FCC/IC.