

# TreuMex Series

## TM-S5010-SE

### Subscriber Unit

#### 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, Universal, IC, WPC & MII regulations.

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



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#### 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



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## PRODUCT SPECIFICATIONS:

| Configuration                |                                                                                       |                           |                           |                           |                                   |
|------------------------------|---------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|-----------------------------------|
| Architecture                 | Outdoor Unit connectorized for external antenna (2 xN-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 50 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-601X-U Series                                                |                           |                           |                           |                                   |
| 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<br>5MHz [GHz]                                                              | Channel BW<br>10MHz [GHz] | Channel BW<br>20MHz [GHz] | Channel BW<br>40MHz [GHz] | Radio Compliance                  |
| 5.8 GHz FCC IC (default)     | 5.7275-5.8475                                                                         | 5.725-5.850               | 5.725-5.850               |                           | FCC 47CFR Part 15.247; IC RSS-210 |
| Power                        |                                                                                       |                           |                           |                           |                                   |
| Power Feeding                | Power provided over ODU-IDU cable                                                     |                           |                           |                           |                                   |
| Power Consumption            | <12 W                                                                                 |                           |                           |                           |                                   |
| Environmental                |                                                                                       |                           |                           |                           |                                   |
| 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) |                           |                           |                           |                                   |
| Safety                       |                                                                                       |                           |                           |                           |                                   |
| 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                                                       |                           |                           |                           |                                   |
| EMC                          |                                                                                       |                           |                           |                           |                                   |
| 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:** TreuMex 5010 Series ODU , connectorized for external antenna (2 xN-type) , factory default 5.8 GHz FCC/IC

