

TreuMex Series

TM-S5025-LI-23

Subscriber Unit

PRODUCT DESCRIPTION:

TM-S5025-LI-23 Subscriber Unit (SU) provides high capacity access connectivity of up to 25 Mbps net aggregate throughput.

TM-S5025-LI-23 supports 4.9 to 6 GHz and complies with FCC/IC, Universal, IC, WPC & MII regulations.

The radio comes with an integrated antenna.



PRODUCT HIGHLIGHTS :

- Up to 25 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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Datasheet Ver. 1.1.4

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PRODUCT SPECIFICATIONS:

Configuration					
Architecture	Outdoor Unit with an integrated antenna				
PoE to ODU Interface	Outdoor CAT-5e Maximum cable length: 100m for 10/100BaseT				
Radio					
Max Capacity	25 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	TreuDop (Desktop IDU) 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 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		FCC 47CFR Part 15.247; IC RSS-210
Power					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<20 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				

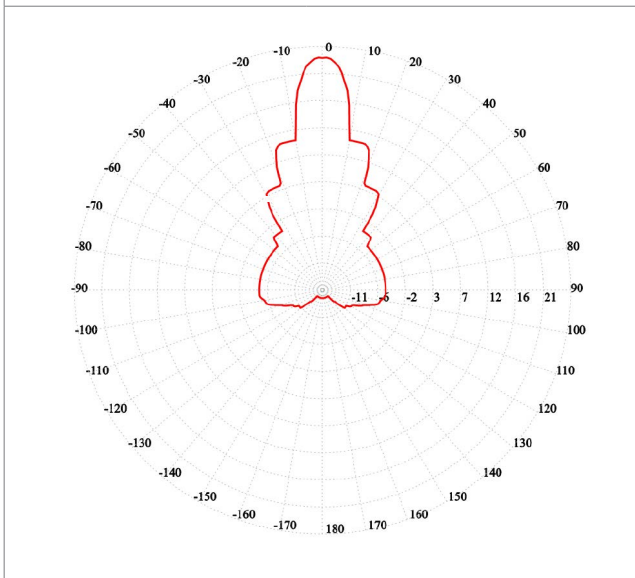


Integrated Antenna

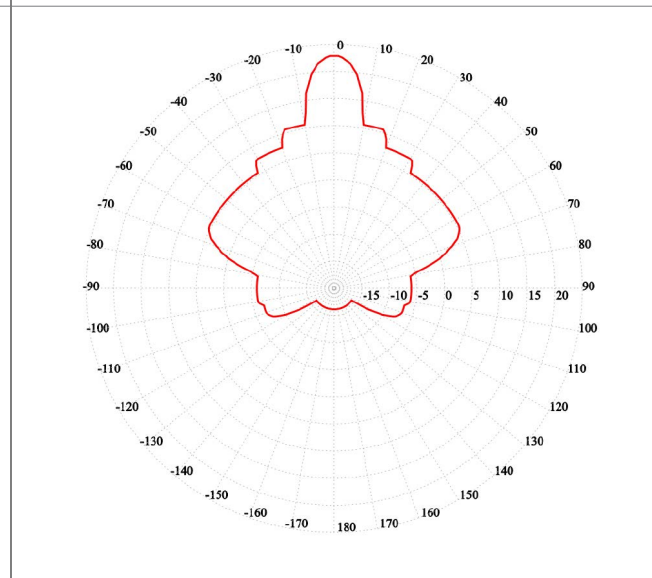
Gain	23 dBi
VSWR	1.5 :1 (typ)
3 dB Beamwidth	10 Deg. (typ)
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	ETSI EN 302 326-3 V 1.1.2 DN3
Cross Polarization	ETSI EN 302 326-3 V 1.1.2 DN3
F/B Ratio	-30 dB
Port To Port Isolation	30 dB (typ)
Lightning Protection	DC Grounded

Antenna Pattern

Elevation @ 5.8GHz



Azimuth @ 5.8GHz



ORDERING INFO:

Part Number: TM-S5025-LI-23

Description: TreuMex 5025 Series ODU , with an integrated antenna , factory default 5.8 GHz FCC/IC

