

TreuMex Series

TM-B5050-LI-13

Sector Base Station

PRODUCT DESCRIPTION:

TM-B5050-LI-13 Sector Base Station (BS) provides up to 50 Mbps net aggregate throughput while delivering access connectivity for up to 32 Subscriber Units (SU).

TM-B5050-LI-13 supports 4.9 to 5.9 GHz and complies with FCC/IC, WPC, Universal & MII regulations.

The radio comes with an integrated antenna.



PRODUCT HIGHLIGHTS :

- Up to 50 Mbps net aggregated throughput
- Long range – Up to 40 km / 25 miles
- Supports up to 32 SUs
- Guaranteed Service level Agreement (SLA) per SU
- Exceptional short and constant latency
- Single radio supporting multiple bands
- 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 with an integrated antenna				
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT				
Radio					
Max Capacity	50 Mbps net aggregate throughput				
Range	Up to 40 km / 25 miles				
Subscriber Units (HSUs) support	Up to 32 SUs				
Channel Bandwidth	Configurable: 5, 10, 20, 40 MHz (for the default band)				
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)				
Adaptive Modulation & Coding	Supported				
Smart Bandwidth Management (DBA)	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; AES 256 optional (via Software License Key)				
Support Indoor units	TreuPoz (POE Devices) TP-601X-U Series				
Uplink Downlink Allocation	Configurable: Symmetric or Asymmetric				
End to End Latency	Typical: 3.5msec @ 2 SUs; 20msec @ 32 SUs				
Layer 2	Bridging learning of 5K MAC addresses				
QoS	Packet classification to 4 priority queues according to 802.1P or Diffserv				
VLAN Support	802.1Q, QinQ, 4094 VLANs				
TDD Intra Site Synchronization	Supported				
TDD Inter Site Synchronization	Supported through common GPS receiver per site				
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				

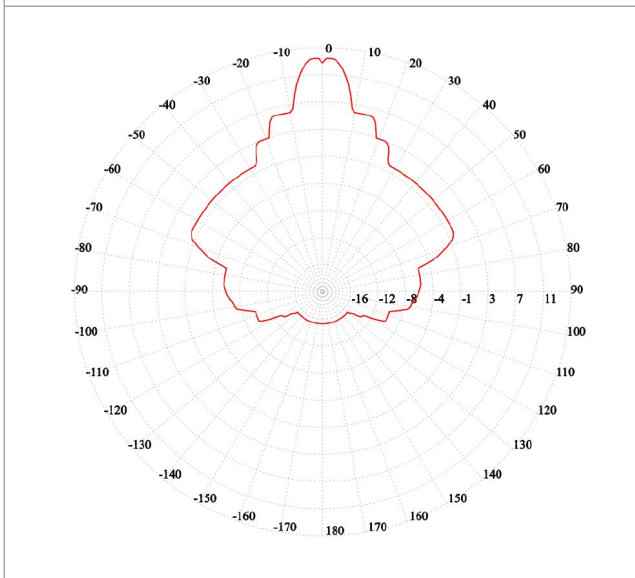


Integrated Antenna

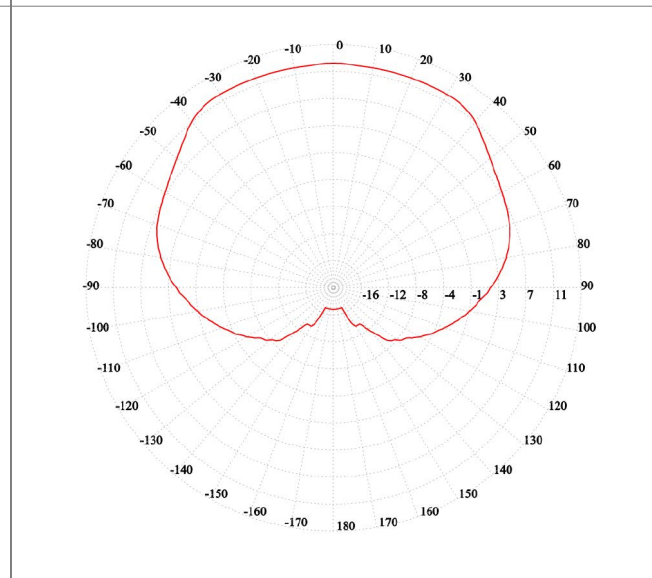
Gain	13 dBi
VSWR	1.7 :1 (typ)
3 dB Beamwidth	90 Deg. (typ)
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	-10dB (typ)
Cross Polarization	-25dB (typ)
F/B Ratio	-20 dB
Port To Port Isolation	30 dB (typ)
Lightning Protection	DC Grounded

Antenna Pattern

Elevation @ 5.8GHz



Azimuth @ 5.8GHz



ORDERING INFO:

Part Number: TM-B5050-LI-13

Description: TreuMex B5050 Series ODU , with an integrated antenna , factory default 5.8 GHz FCC/IC

