

TreuMex B5050 Series ODU

Sector Base Station

TM-B5050-LI-13



Product Description

TM-B5050-LI-13 is a sector Base Station radio unit (BS) that 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.

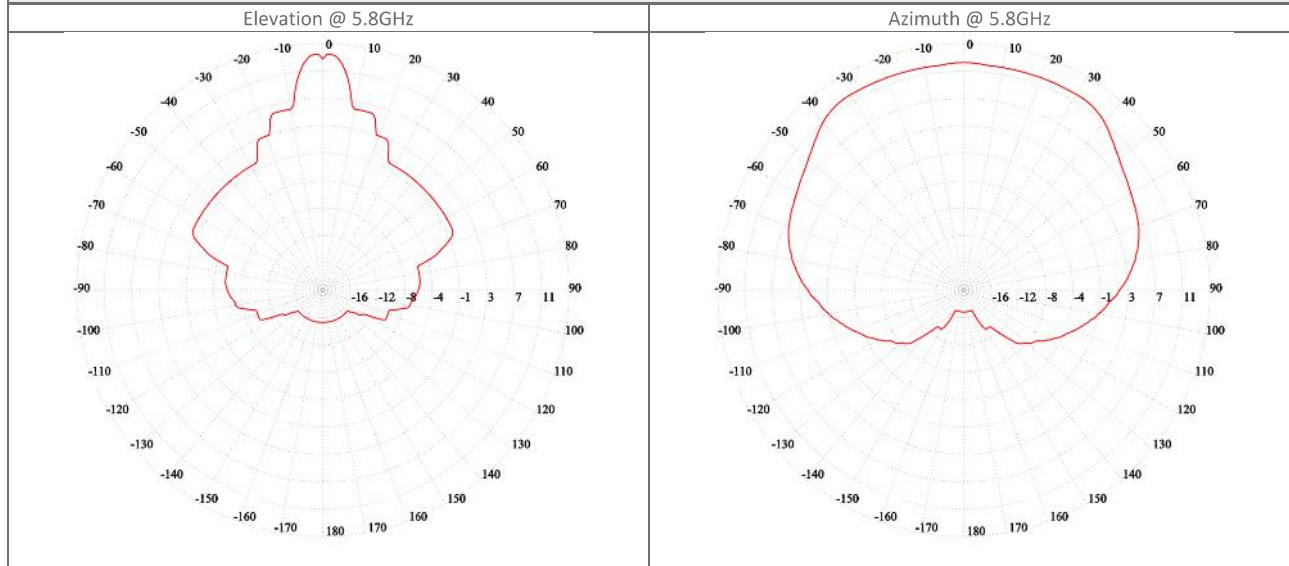
Product Highlights

- 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

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				
Subscriber Units (SUs) support	Up to 32 SUs				
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				
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-POE-AC-GBE-X)				
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				
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
4.9 GHz Universal	4.8975-4.9925	4.895-4.995	4.890-5.000	4.880-5.000	Universal
5.8 GHz MII	5.7375-5.8375	5.735-5.840	5.730-5.845	5.720-5.855	CMIIT RTA
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
5.1 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
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
ODU Dimensions	50(w) x 20(h) x 11(d) cm				
ODU Weight	3.9 kg / 8.60 lbs				
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<20W				
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)				
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				

Integrated Antenna	
Gain	13 dBi
VSWR	1.7 : 1 (typ)
3 dB Azimuth 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	30dB (typ)
Lightning Protection	DC Grounded



Ordering Info

Part Number: TM-B5050-LI-13

Description: TreuNetz - TreuMex B5050 Series ODU, with an integrated antenna, supporting multi frequency bands at 5.xGHz, factory default 5.8 GHz FCC/IC.