

TreuVaz Series

TV-50750-LE

Point-to-Point Radio

PRODUCT DESCRIPTION:

TV-50750-LE is a carrier-class radio that belongs to the TreuVaz 50750 Series and supports 5.8 GHz frequency range.

The Radio complies with Universal, FCC/IC, WPC & MII regulations with a factory default of 5.8 GHz FCC/IC..

TV-50750-LE delivers up to 750 Mbps throughput.

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



PRODUCT HIGHLIGHTS: :

- 750 Mbps Ethernet net throughput
- Long range – Up to 40 km / 25 miles
- Telco grade, extremely robust in harsh conditions
- Supports intra site and inter site synchronization to maximize capacity
- Configurable asymmetric throughput
- Advanced OFDM & MIMO technologies for operation in nLOS NLOS and dense radio environments



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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 and 75m for 1000BaseT				
Radio					
Max Capacity	750 Mbps net aggregate throughput				
Range	Up to 40 km / 25 miles				
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band)				
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)				
Adaptive Modulation & Coding & Channel BW	Supported				
Automatic Channel Selection	Supported upon power up				
DFS	Not Supported (For the default band)				
Diversity	Supported				
Spectrum Viewer	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	IDUs: TreuRack (RackMount IDU) TreuDop (Desktop IDU) TreuPoz (POE Devices) TP-601X-U Series				
Uplink Downlink Allocation	Configurable: Symmetric or Asymmetric				
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 vommon GPS receiver pre site				
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				

ORDERING INFO:

Part Number: TV-50750-LE

Description: TreuNetz-TreuVaz 50750 Series ODU , connectorized for external antenna (2 x N-type), factory default 5.8 GHz FCC/IC

