

TreuVaz Series

TV-54250-LE

Point-to-Point Radio

PRODUCT DESCRIPTION:

TV-54250-LE is a carrier-class radio that belongs to the TreuVaz 54x Series and supports 5.1 to 5.8 GHz frequency range.

The Radio complies with ETSI regulations with a factory default of 5.4 GHz ETSI.

TV-50250-LE delivers up to 250 Mbps throughput.

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



PRODUCT HIGHLIGHTS: :

- 250 Mbps Ethernet net throughput
- Long range - Up to 120 km / 75 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	250 Mbps net aggregate throughput				
Range	Up to 120 km / 75 miles				
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band)				
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)				
Adaptive Modulation & Coding	Supported				
Automatic Channel Selection	Supported upon power up				
DFS	Supported (ETSI)				
Diversity	Supported				
Spectrum Viewer	Supported				
Max Tx Power	25 dBm; max EIRP 30 dBm (for the default band)				
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				
QoS	Packet classification to 4 priority queues according to 802.1P or Diffserv				
VLAN Support	802.1Q, QinQ, 4094 VLANs				
Ethernet Ring Protection	Supported, including Ethernet 1+1				
TDD Intra Site Synchronization	Supported				
TDD Inter Site Synchronization	Supported through common GPS receiver per site				
Supported Bands					
Band	CBW 10MHz [GHz]	CBW 20MHz [GHz]	CBW 40MHz [GHz]	CBW 80MHz [GHz]	Radio Compliance
5.3 GHz ETSI	5.150-5.350	5.150-5.350			EN 301 893
5.4 GHz ETSI (default)	5.475-5.705	5.470-5.710	5.490-5.720	5.490-5.650	EN 301 893
5.8 GHz ETSI	5.735-5.865	5.735-5.865			EN 301 502
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 in water up to 1m)				
Safety					
US/CAN (cTUVus)	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22				
CE/IEC	EN/IEC 60950-1, EN/IEC 60950-22				
EMC					
FCC	47 CFR, Part15, Subpart B, Class B				
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4				
CAN/CSA-CEI/IEC	CISPR 22-2010 Class B				

ORDERING INFO:

Part Number: TV-54250-LE

Description: TreuNetz-TV 54x Series ODU, connectorized for external antenna (2 x N-type), Factory default 5.4 GHz, 250M, ETSI

