

TreuVaz Series

TV-5010-SE

Point-to-Point Radio

PRODUCT DESCRIPTION:

TV-5010-SE is a carrier-class radio that belongs to the TreuVaz 5010 Series and supports 5.7 to 5.8 GHz frequency range.

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

TV-5010-SE delivers up to 10 Mbps throughput and up to 2xE1s/T1s over an extended range.

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



PRODUCT HIGHLIGHTS :

- 10 Mbps Ethernet net throughput and 2xE1s / T1s Native TDM interfaces
- 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
- Adaptive asymmetric throughput – dynamic allocation between uplink and downlink
- 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				
Radio					
Max Capacity	10 Mbps net aggregate throughput (up to 2xE1s/T1s plus Ethernet)				
Range	Up to 120 km / 75 miles				
Channel Bandwidth	Configurable: 5, 10, 20 MHz (for the default band)				
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)				
Adaptive Modulation & Coding	Supported				
Automatic Channel Selection	Supported				
DFS	Supported (FCC IC)				
Diversity	Supported				
Spectrum Viewer	Supported				
Max Tx Power	25 dBm				
Duplex Technology	TDD				
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/				
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				
Ethernet Ring Protection	Supported including Ethernet 1+1				
TDD Intra Site Synchronization	Supported				
TDD Inter Site Synchronization	Supported				
Monitored Hot Standby	1+1 with Treunetz Point-to-Point Radio				
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	<12 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-5010-SE

Description: TreuNetz - TreuVaz 5010 Series ODU , connectorized for external antenna (2 x N-type), factory default 5.8 GHz FCC/IC

