

TreuVaz Series

TV-5050-LIE-1549

Point-to-Point Radio

PRODUCT DESCRIPTION:

TV-5050-LIE-1549 is a carrier-class radio that belongs to the TreuVaz 5050 Series and supports 5.8 GHz frequency range.

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

TV-5050-LIE-1549 delivers up to 50 Mbps throughput and up to 8xE1/T1s over an extended range.

The radio comes with an embedded antenna and connectorized for external antenna (2 xN- type).



PRODUCT HIGHLIGHTS :

- 50 Mbps Ethernet net throughput and 8xE1s/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 network capacity
- Adaptive asymmetric throughput – dynamic allocation between uplink and downlink
- Advanced OFDM & MIMO technologies for operation in nLOS/NLOS and dense radio environments
- Upgradeable with a license key to 100Mbps net aggregate throughput



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PRODUCT SPECIFICATIONS:

Configuration					
Architecture	Outdoor Unit with an embedded antenna and connectorized for external antenna (2 xN-type)				
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 (up to 8xE1s/T1s plus Ethernet); Upgradeable with a license key to 100Mbps net aggregate throughput				
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	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				
Ethernet Ring Protection	Supported, including Ethernet 1+1				
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				

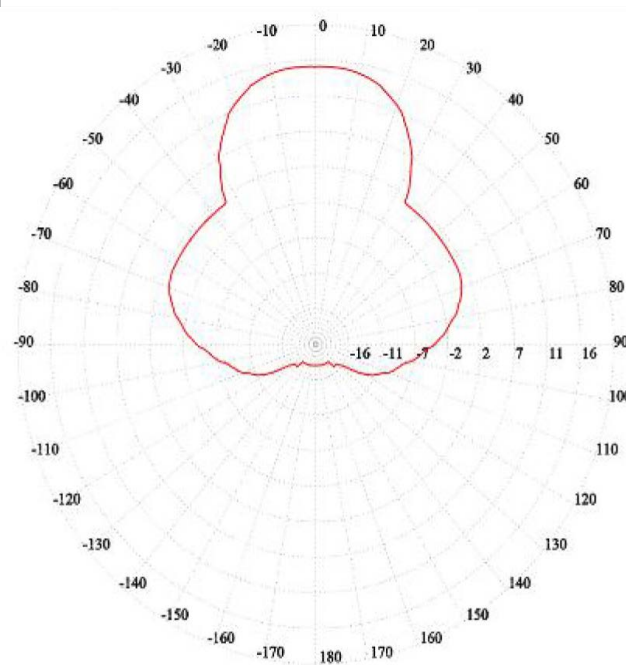


Integrated Antenna

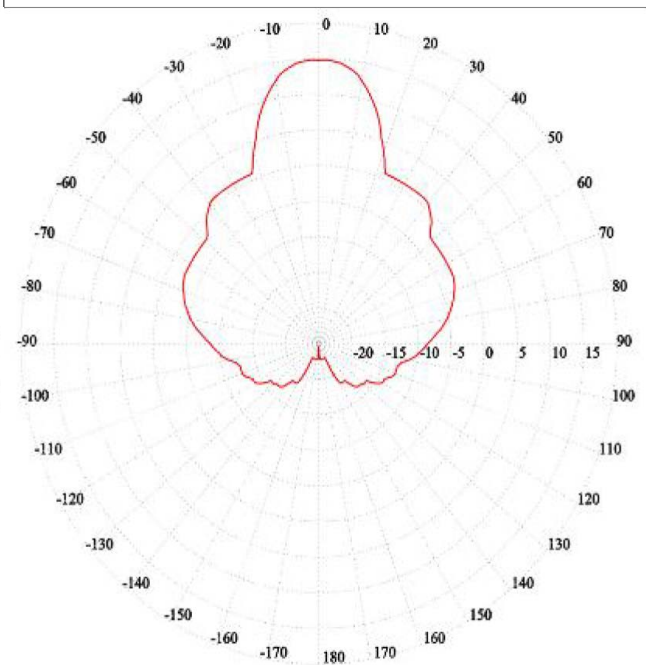
Gain	15 dBi
VSWR	1.5 :1 (typ)
3 dB Beamwidth	30 Deg. (typ)
Polarization	Dual Linear (Vertical and Horizontal)
Sidelobes Level	ETSI EN 302 326-3 V 1.1.2 (2006-03) DN1
Cross Polarization	ETSI EN 302 326-3 V 1.1.2 (2006-03) DN1
F/B Ratio	-25 dB
Port To Port Isolation	20 dB (typ)
Lightning Protection	DC Grounded

Antenna Pattern

Elevation @ 4.9GHz



Azimuth @ 4.9GHz



ORDERING INFO:

Part Number: TV-5050-LIE-1549

Description: TreuNetz-TreuVaz 5050 Series ODU , with an embedded antenna and connectorized for external antenna (2 xN-type), factory default 5.8 GHz FCC/IC

