



TRC-440/E

Transportable Radio Communication System

Establishing and developing fixed/transportable communication networks quickly is a certain requirement of each organization and country. Type of transmission infrastructure is different proportionate to capacity, installation/setting up speed, and field operation. TRC-440/E is an IP based Line of Sight (LOS) high capacity radio communication system as a full duplex radio designed and manufactured for establishing communication in frequency range of 1300-1750 MHz. This radio can be operated to establish communication between two fixed/transportable LOS stations through a long distance.

TRC-440/E is small in size and consumes low energy with capability of accurate frequency selection. Due to operating frequency band, this radio can be installed quickly/easily. In addition it is operated properly for data/image transmission with desired reliability in various communication environments including high vibration and high humidity conditions.

Capabilities

- ✓ Quick installation and setting up
- ✓ Small in size, low weight, and low price
- ✓ Voice Over IP (VOIP)/image/data transmission
- ✓ Stationary/transportable operation
- ✓ Site survey using built-in spectrum of the radio
- ✓ Water/dust resisted based on the IP65-67 standard
- ✓ Compatible with condition of transmission environment and selecting proportionate transmission rate
- ✓ Resisted against electrical damages due to Surge Protection
- ✓ Operating the radio in its whole desired frequency range due to the TDM
- ✓ Equipped with a strong WEB interface for monitoring and configuring locally/remotely

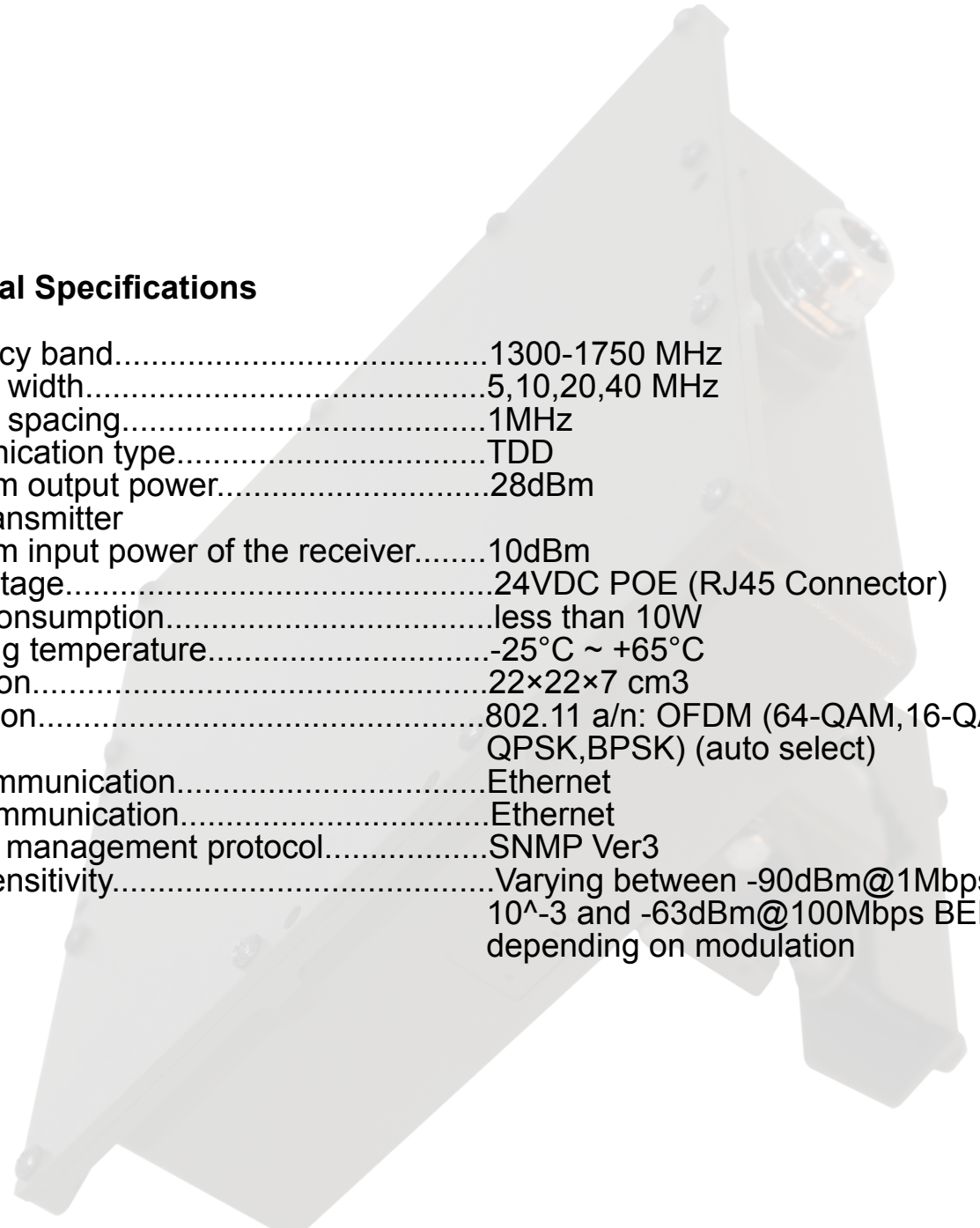
Standard Accessories

- Installation equipment
- POE (24V)
- RF cable
- Directional array antenna with 12dpi gain
- Directional reflector antenna with 19dpi gain
- Omni-directional rod antenna with 7dpi gain
- Directional dual-polarized antenna with 8dpi gain

Optional Accessories

- Network cable
- IP based telephone set
- IP based camera
- Network switch

Technical Specifications



Frequency band.....	1300-1750 MHz
Channel width.....	5, 10, 20, 40 MHz
Channel spacing.....	1MHz
Communication type.....	TDD
Maximum output power.....	28dBm
of the transmitter	
Maximum input power of the receiver.....	10dBm
Input voltage.....	24VDC POE (RJ45 Connector)
Power consumption.....	less than 10W
Operating temperature.....	-25°C ~ +65°C
Dimension.....	22×22×7 cm ³
Modulation.....	802.11 a/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK) (auto select)
Data communication.....	Ethernet
NMS communication.....	Ethernet
Network management protocol.....	SNMP Ver3
Radio sensitivity.....	Varying between -90dBm@1Mbps BER 10 ⁻³ and -63dBm@100Mbps BER 10 ⁻³ depending on modulation