



POINT TO POINT HIGH SPEED IP LINK

- ◆ High Speed Wireless LAN Extension
- ◆ 10 BaseT and 100 BaseT capacity
- ◆ Distance of up to 60 Kms
- ◆ Available in all licensed bands between 2 to 40 GHz

PRODUCT APPLICATION:

The TRIP family of Microwave Radio Links provides IP connectivity between two points at distances of up to 60 Kms. It is ideally suited for LAN or WLAN extensions, IP Backhaul and other high-speed IP transport applications.

The transceivers operate in any of the licensed bands between 2 and 40 GHz and can be used at line-of-sight distances of up to 60 Kilometers. They can also be used as repeaters to increase the transmission distance. The specific range of each terminal depends on the operating frequency, antenna size and other factors.

The throughput data capacity of the links vary from a minimum of 10 Mbps to a maximum of 34 Mbps, depending on the bandwidth available at each frequency band.

Each transceiver terminal consists of an Indoor Unit connected by a cable to an Outdoor Unit, which is mechanically integrated with a high-directivity antenna.

The TRIP family of Transceivers is also available in fully protected (1+1) redundant configurations for applications with high availability requirements.

The radios feature built-in Reed Solomon Forward Error Coding and built-in control and monitoring functions with optional remote access and SNMP monitoring.

The TRIP Terminals are shipped with one of several powering options ranging from -48 VDC, +24 VDC or 110/220 Volts AC, 50 to 60 Hz.

IP LINK Transceivers Model TRIPXX-XX

System Specifications	
Frequency Range	Any Licensed Band from 2 to 40 GHz
Mode of Operation	FDD (Frequency Division Duplexing)
Data Throughput Rate	From 10 Mbps to 34 Mbps
System Gain for 10E-6 BER	From 90 to 116 dB
Occupied Bandwidth	From 6 to 28 MHz
Transmit/ Receive Spacing	Per ITU-R Requirements and Recommendations
Antenna Diameter	From 60 cm to 2.4 meters
Data Interface	RJ-45
Transmitter Specifications	
Transmitter Output Power	From +16 to +40 dBm
Modulation	QPSK, DQPSK, 64-QAM, OFDM, COFDM
Frequency Stability	$\pm 3 \times 10^{-6}$ Hz
Configuration	Indoor Unit and Outdoor Unit
Antenna	High Gain, from 60 cm to 1.8 meter diameter
Receiver Specifications	
Receiver Sensitivity Threshold for 10 E-6 BER	-81 to -87 dBm
Adjacent Channel Rejection	23 dB
Frequency Stability	$\pm 3 \times 10^{-6}$ Hz
Configuration	Indoor Unit and Outdoor Unit
Antenna	High Gain, from 60 cm to 1.8 meter diameter
Environmental	
Operating Temperature	-30 to +55 degree Centigrade
Mounting	Outdoor unit on Steerable antenna mount
Humidity	99% humidity
Options	
Powering	Optional -48 VDC, +24 VDC, 110-240 VAC, 50/60 Hz
Protection	Unprotected OF 1+1 Hot Stand by
Monitoring	Local or Remote options available

¹ Specifications subject to change without prior notice.