



POINT TO POINT IPLINK FOR LICENSE-FREE BANDS

- **600 Mbps aggregate throughput**
- **5.15-5.85 GHz ISM Bands**
- **Up to 35 Km distance**
- **Built-in 2.4 GHz WIFI Radio**
- **802.11ac/a/n and 802.11b/g/n**
- **Two Traffic Ports WAN and LAN with 24 VDC PoE**
- **AES 128 WPA2 PSK Data Encryption**

PRODUCT APPLICATION:

The IPLINK-5.8 is a wireless backhaul radio, operating as a wireless Ethernet bridge with up to 600 Mbps aggregate data throughput. It is normally used in the 2X2 MIMO configuration with dual polarization antennas. The link has selectable bandwidths of 20, 40 and 80 MHz and operates with modulation up to 256QAM.

Typical distances achievable with standard antennas are shown in the table below. Higher distances can be quoted on request.

The links operate in the license-exempt bands of 5.15 to 5.25 GHz and the 5.40 to 5.85 GHz bands.

The radios have an integral 2.4 GHz WIFI MIMO radio for Hotspot applications.

Key hardware features are: PoE on either of two Gigabit Ethernet ports, Hardware-based AES128 Encryption and RSSI LEDs to facilitate easy alignment.

Key Software features are: Spectrum AP Survey, Automatic Channel Selection, Web-based Firmware update, Dynamic DNS, Static IP/DHCP client or server/PPPoE, MAC address filtering, Real time graphing of traffic and RSSI (signal quality), VLNA management, QOS traffic shaping, SPT (Spanning Tree Protocol), Web Interface (HTTP, HTTPS) and Peer MAC authentication.

Distance	Description	Aggregate Throughput	Model
15 Km	PTP Link with external 60 cm diameter dish antennas	615 Mbps	IPLINK5.8-060
25 Km	PTP Link with external 90 cm diameter dish antennas	616 Mbps	IPLINK5.8-090
35 Km	PTP Link with external 120 cm diameter dish antennas	616 Mbps	IPLINK5.8-120

Product Specification¹



IP LINK Model IP 5.8-XX

System Specifications	
Frequency Range	5.15-5.25 GHz, 5.4-5.725 , 5.725–5.85 GHz
Standard	802.11ac/a/n
Channel Sizes	20, 40, 80 MHz
User Data Throughput	Aggregate 615 Mbps Maximum
Network Interface	2 x 1000 BaseT (LAN+WAN) Auto MDI/MDIX
Latency	1 mS
LEDs	RSSI (four), Ethernet
Antenna Diameters	From 60 cm to 1.8 meter
Transceiver Specifications	
Transmitter Output Power	Up to +30 dBm total power
Modulation	BPSK, QPSK, 16 QAM, 64 QAM, 256QAM
Receiver Sensitivity	-68 to -95 dBm depending on bandwidth and modulation
RF Interface to antenna	Two “N” connectors
Interface to WIFI antennas	Two RP-SMA connectors
Powering	
Powering Method	PoE on LAN or WAN port
Powering	24 Vdc, 800 mA Gigabit PoE adapter (100-240VAC)
Physical and Environmental	
Operating Temperature	-40° to 60° C
Humidity	5% to 95% Non-condensing humidity
Size	Radios 17 cm x 6 cm x 24 cm
Mounting	Attaches to 5 cm diameter mounting pole

¹ Specifications subject to change without prior notice.