

IPLINK LICENSE-FREE 24 GHz BAND HIGH PERFORMANCE



- **1.5 Gbps aggregate capacity in a 60 MHz channel (750 Mbps full duplex)**
- **3 Gbps aggregate capacity with XPIC/2+0 (1.5 Gbps Full Duplex)**
- **Hitless Adaptive Coding and Modulation (ACM)**
- **Cross Polarization Interference Cancellation (XPIC)**
- **Eight User-selectable channel sizes (from 10 to 60 MHz)**
- **Nine user-selectable modulations (from QPSK to 1024 QAM)**
- **PoE (Power over Ethernet) or direct power**

PRODUCT APPLICATION:

The high capacity 24 GHz License-Free IPLINK is a full duplex point-to-point radio link specially designed for IP high capacity wireless applications in a license-free band.

The link operates in the license-free 24 GHz band with eight user-selectable channels. Channel size is adjustable from 10 to 60 MHz.

Capacity is 750 Mbps full duplex (1.5 Gbps aggregate) in the standard configuration and 1.5 GHz full duplex (3 Gbps aggregate) using the built-in cross-polarization cancellation feature.

The radios feature ACM (Hitless Adaptive Coding and Modulation) format which are user-selectable from QPSK through 1024 QAM.

The link supports both fiber and copper Gigabit Ethernet interfaces with in-band and out-of-band management, and can be powered directly or over Ethernet using a PoE injector.

Each transceiver terminal is an all-outdoor unit connected built to withstand extreme weather conditions.

The transceivers can be integrated with antennas measuring 1, 2 or 23 feet in diameter.

Installation is easy thanks to a built-in RSSI BNC Connector. Using a standard voltmeter is all that's required to align the antennas. Easy to install mounting brackets are designed to facilitate antenna pointing and alignment.

Power consumptions under 40 Watt per transceiver and temperature of operation is from -40 to +65 degrees centigrade.

Product Specification¹

CABLE AML

General Parameters	
Model Number:	TLSL-24 (full link consisting of two units), SL-24 (StataLink 24 individual unit)
Frequency Support:	24 GHz Frequency Division Duplex (FDD)
Channel Size ² :	10,14,20,30,40,50,60,MHz
Modulation Format:	Selectable: QPSK, 8PSK, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 512QMA,1024QAM
Maxima Capacity ³ :	500-750 Mbps full duplex-Varies by modulation and bandwidth selected
Payload Latency:	300 μs typical
Payload Tunes:	Ethernet (IPv4 and IPv6 compatible)
Features:	Hitless adaptive coding & modulation (ACM), LDPC forward error correction
Regulatory Compliance:	FCC CFR47 PArt 15.249 ETSI EN 301 489-1 EMC ETSI EN 301 489-4 EMC FCC/ANSI:FCC Part 15 class A unintentional radiator RoHS
Safety:	EN60950-1
MTBF	>18 years
Ethernet Parameters	
Packet Size:	64-9600 bytes
Ring Protection:	RSTP Supported with Rapid Port Shutdown (RPS)
Link Aggregation:	Physical Link Aggregation (PLA)
Quality of Service (QoS):	802.1p Port prioritization Diffsev (DSCP) Port mapping for traffic Support for up to 8 Classes of Service (CoS) Shaping per port
Data Security:	AES-128 or AES- 256 (option)
Management	
Security / Authentication:	2 level password (Read only, read/write)
Configuration & Management:	Telnet, SSH, HTTPS, Serial console (RS232-115200, N,8,1), SNMPV2
Remote Firmware Update:	FTP client, TFTP server
Interface	
Indicators:	Ethernet speed and activity for each port; 1 BNC-F for receiver signal level voltage
Payload Interfaces:	1x GigE RJ45 (10/100/1000 Base T), PoE capable 1x GigE Fiber/ Copper (SFP)
Traffic /Management Interface:	In-band or out-of-band
PLA:	1x GigE Fiber/Copper (SFP)
XPIC IN/OUT:	SMA-female (2)
Power Connector:	2 Pin Terminal Block for direct power or PoE over GIGe data
Console:	DB9 RS232-115200,N,8,1 with optional SFP module
Antenna	
Supported Types:	High performance dish antenna - 1,2 & 3 foot options (34.1 dBi, 41 dBi, 45.1 dBi)
Interface:	Direct split- fit mount circular waveguide using cross pol operation
Power	
Input:	-45 to -72 VDC direct, -43 to -50 VDC using PoE
Power Consumption:	< 40 Watts
Power Protection:	Reverse Polarity and transients suppression (100 volts clamping)
Mechanical & Environmental	
Enclosure:	Cast Aluminum, PoE Injector: Polycarbonate
Dimensions:	10.5 in H x10.5 in W x 4.5 in D / PoE injector: 3.25 in H x 5.125 in W x 8.5 in D
Weight:	9.1 lbs
Temperature Range:	-40° to 131° F/-40° to +55° C(spec complain) -40° to 149° F/ -40° to +65° (operational)
Humidity:	100% condensing
Antenna Connector:	Slip- Fit Mount

¹ Specifications subject to change without prior notice.

² Based on purchasable capacity key. Contact sales for more information.

³ Legal regulation for specific frequency vary from region to region. Users are responsible for complying with their local regulations.