

IPLink

Next Generation Digital Video/Data Microwave Systems

IPLink combines the features of a broadcast digital microwave point-to-point radio system with the modern efficiencies of a high-capacity long-distance bi-directional IP microwave radio design. It allows the broadcaster to smoothly migrate from the traditional ASI transport platform to a future IP-centric system architecture.

The system delivers ultra-high linear RF output performance coupled with the reliability that LDPC forward error correction (FEC) affords in controlling errors in data transmissions over long or unreliable microwave paths.

A key advantage of the IPLink is that it allows BAS 7 & 13 GHz simplex links to be transformed into affordable duplex IP Ethernet microwave systems within a T/R channel spacing as close as 75 MHz; a Vislink first.

Systems are available in Simplex, Duplex, Hot-Standby and Spatial Diversity Receive configurations.

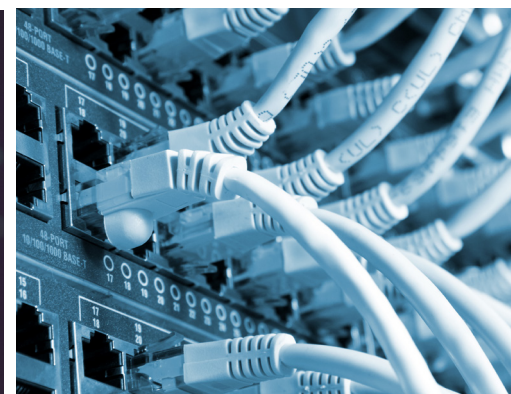


Key Features

- All-indoor, space efficient 2RU x 19" (48cm) rack-mount
- Ultra-high linear broadband RF power amplifiers
- Exceptional System Gain Performance
- High capacity ASI & Gigabit Ethernet IP data transport
- Automatic Transmitter Power Control
- Adaptive Code Modulation
- User selectable modulations from QPSK to 256 QAM
- ANSI and ETSI channel bandwidths
- Intuitive Web-based GUI for monitoring/control

Typical Applications

- Studio-to-Transmitter Links (STL)
- Transmitter-to-Studio Links (TSL)
- Inter-city Relay Backhauls (ICR)
- Multi-hop Microwave Relay Systems
- High-capacity IP Microwave Systems



RF PARAMETERS**RF Power Output Level
(prior to filter branching)**

- +34dBm to +27dBm*
@ 6 GHz BAS
- +33dBm to +26dBm @ 7 GHz
- +32dBm to +25dBm @ 8 GHz
- +29dBm to +22dBm
@ 13 GHz BAS

* (Modulation dependent)

RF Band Support*

- 6.425 – 7.125 GHz
(FCC TV-BAS, ETSI)
- 7.100 – 7.900 GHz (ETSI)
- 7.725 – 8.500 GHz (ETSI)
- 12.700 – 13.250 GHz
(FCC TV-BAS, ETSI)

* Consult factory for additional RF band support

**Channel Filter Branching Network
Assemblies***

- 50 MHz typ. T/T & R/R
@ 7 & 13 GHz FCC-BAS
- 75 MHz typ. T/R
@ 7 & 13 GHz FCC-BAS
- Waveguide Interface: WR137
@ 7 GHz, WR75 @ 13 GHz

* Consult factory for additional WG interface availability

**DATA TRANSPORT
PARAMETERS****Modulations**

- QPSK, 8PSK, 16 QAM, 32 QAM, 64 QAM, 128 QAM, 256 QAM

**Data Throughput Capacity
(one-way)**

- 10 Mbps to 360 Mbps

**Automatic Transmitter Power
Control (ATPC)****Adaptive Code Modulation
(hitless 0ms)****Encryption**

- AES 256

**PRIME POWER (MAINS)
PARAMETERS****100W (power consumption)
switching**

- AC (90-132V & 180-264V
@ 47 – 63 Hz)

USER INTERFACE PARAMETERS**Ethernet (payload)**

- 2 x 100/1000 Base-T, RJ-45
- Gigabit Ethernet line rates scalable up to 360 Mbps
- IPv4 and IPv6
- VLAN 802.1Q
- 64 level DiffServ (DSCP) QoS or 8 level 802.1p in 4 prioritization queues with VLAN support

ASI (payload)

- 4 x ASI simplex transmit (BNC-F)
- 4 x ASI simplex receive (BNC-F)
- 4 x ASI individually configured per direction for duplex (BNC-F)

**Local and Remote Link
Web-browser Management**

- 1 x 100/1000 Base-T (RJ-45)

**System Management Interface
Parameters**

- Hot-Standby (1+1) and Space Diversity
- 1x DB9 for Alarm Fault switching – RF PA, RSL, etc.

MECHANICAL PARAMETERS

- Weight: 18 lbs. (8.2 kg) (approx)
- 2 RU x 19" (48cm) EIA Rack Mount
- 15.0" depth (38cm) exclusive of filter branching

ENVIRONMENTAL PARAMETERS**Operating to full specifications**

- 0° to +50° C (32° to 122° F)
- Humidity up to 95% non-condensing

Operational

- -10° to +60° C (14° to 140° F)

Storage

- -40° to +70° C (-40° to +158°F)

REGULATORY PARAMETERS

- FCC Type Certification in accordance with CFR 47 Part, subpart J including:
 - CFR 47, Part 74, subpart J
 - CFR 47, Part 101, subparts C, H and I

- FCC part 15 EMC unintentional emission radiators
- ETSI; EN 301 489-1, 489-28, EN 302 064-1
- Safety per EN/CE EN60950

LICENSE KEY UPGRADES:

- IPLink-365-LIC
- 200 Mbps to 360 Mbps data throughput license (per non-protected terminal)

