VISLINK

TRANSMITTER

V-IPLink

Multi-mode Video Content Transmission Platform

V-IPLink is the next-generation, ATSC 3.0-ready digital microwave system. This IP-centric solution is specifically designed to meet broadcasters' studio-to-transmitter requirements.

The 2RU chassis combines sleek design with the reliable performance of a modern broadcast microwave system.

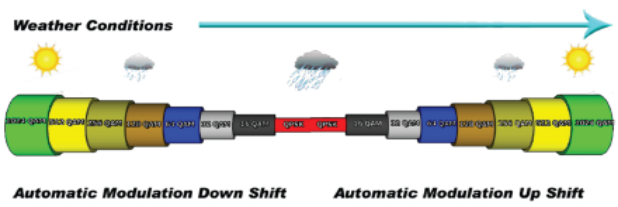
The streamlined physical design features integrated TX/RX transceivers within a single enclosure, complemented by front-panel touchscreen display for monitoring critical performance metrics and alarms. This modular platform offers a highly adaptable and configurable solution, tailored to meet a wide range of customer requirements.

The system delivers enhanced RF gain performance through improvements in linearization and LDPC forward error correction (FEC) which reduces the incidence of packet loss over long or unreliable transmission paths.

V-IPLink offers increased data throughput by utilizing modulation architectures up to 1024QAM and XPIC (cross-polarization interference cancellation). XPIC is a spectrally-efficient technique that doubles data rates by simultaneously operating on both horizontal and vertical polarizations using the same channel frequency. XPIC is highly beneficial when only one channel frequency per path is available.

V-IPLink harness the power of ACM (Adaptive Coding Modulation), enabling dynamic adjustments to the modulaton scheme, optimizing the transmission system based on prevailing path conditions, and maxinmizing the transported bit rate.

V-IPLink is available in both protected (1+1, hot-standby) and non-protected duplex configurations and can be designed for simplex operation, including spatial diversity receive systems.



The Constellation Order will be selected on MER analysis and the highest and lowest are user selectable.

Key Features

- All-indoor, space-efficient 2RU x 19" (48cm) rack mount
- Ultra-high linearity broadband RF power amplifiers
- Exceptional system gain performance
- High capacity ASI & Gigabit Ethernet IP data transport
- Automatic transmitter power control
- Adaptive code modulation (ACM)
- User selectable asymmetrical modulations from QPSK to 1024QAM
- XPIC cross-polarization interference cancellation
- ANSI and ETSI channel bandwidths selections
- Intuitive web-based GUI for remote

Typical Applications

- Studio-to-Transmitter Links (STL)
- Transmitter-to-Studio Links (TSL)
- Inter-city Relay Backhaul (ICR)
- Multi-hop Microwave Relay Systems
- High capacity IP Microwave Systems
- Ideal for ATSC1.0/3.0 Lighthouse applications

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V-IPLink Datasheet

Technical Specifications	
RF Parameters	
Frequency Bands	• 1.9-2.7GHz • 3.7-4.2GHz • 4.4-4.9GHz • 5.2-5.9GHz • 5.9-6.4GHz • 6.4-7.2GHz • 6.8-7.4GHz • 7.1-7.9Ghz • 7.7-8.5GHz • 10-10.7GHz • 11.7-12.4GHz • 12.7-13.3GHz • 14.25-14.5GHz • 18GHz • 23GHZ
RF Output Level - Single Carrier	• +39 dBm QPSK Modulation (3-14.5GHz) • +33 dBm QAM Modulation (3-14.5GHz) • +36 dBm QPSK Modulation (2GHz) • +33 dBm QAM Modulation (2GHz)
RF Output Level - COFDM	• +27.5 dBm (3-14.5GHz) • +32.5 dBm (2GHz)
Data Transport Parameters	
Modulations	QPSK, 16QAM, 64QAM, 128QAM, 256QAM, 512QAM, 1024QAM
Throughput Capacity	• 15 - 452 Mbps • Automatic Transmitter Power Control (ATPC) • Adaptive Code Modulation ACM(hitless 0ms)

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Output Interface	
ODU Output Interface	• N Type Female Connector (2GHz) • N Type Female Connector or Waveguide Flange PDR70 (WR137) (3/4/5/6/7GHz) • Waveguide Flange PDR84 (WR112) (8 GHz) • Waveguide Flange UBR120 (WR75) (10/12/13/14GHz) • Waveguide Flange PBR 220 (WR42) (18/23GHz)
IDU Output Interface	• N Type Female Connector • TNC Femcal Connector • SMPTE 311 Fibre
Input Interface	
ODU Input Interface	• N Type Female Connector • TNC Femcal Connector • SMPTE 311 Fibre
IDU Input Interface	• SFP Module - ASI • SFP Module - ETH (copper or Fibre)
User Interface Parameters	
Ethernet Port Via SFP	6 Gigabit Eth Ports (RJ45)
XPIC	Optional
STM-1 Port	1
ASI Port Via SFP	4
ASI Packet Size	188/204
Local And Remote Management	1 × 100/1000 Base T (RJ45)
Hot-Standby	
ASI Transmit	2 × 1 DA
ASI Receive	2 × 1 A/B typ 40msec
Ethernet TCP/IP Switch	600-1100msec
System Mangement	1+1 with Space diversity
Power	
AC	110-240VAC
Environmental	
Operational Temp	-33 - +50 Degrees C (ODU) -5 - +45 Degrees C (IDU)
Storage Temp	-40 - +70 Degrees C (ODU)
Humidity	Max 95% non condensing
Mechanical Specification IDU	
Size	330mm x 480mm x 90mm (L x W x H)
Weight	4Kg
Mechanical Specification ODU	
Size	270mm x 150mm x 120mm (L x W x H)
Weight	5Kg

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