

Palladium™ II Digital Video Receiver

Pd2-RX

Digital Video Diversity Receiver Rugged Pack

The Palladium Pd2-RX-XX integrates all the electronics required for RF reception, MPEG 2 or 4 decoding, COFDM demodulation and down converters into one small, aluminum housing. All connections are from the front panel. An optional video over IP interface module with Ethernet connection is available which mounts directly to the receiver. It is an ideal stand alone system for the reception of digital video in many applications.

The front panel of the unit provides two RSSI indicators, one for each antenna/receiver chain. Eight preset channel configurations may be selected. A six pin Hirose connector is used for programming and power input. SMA connectors are used for the two antenna connections. A BNC connector is used for the standard video output and there are two audio output connectors.

Palladium receivers feature an on-screen display of current settings, performance parameters, and spectrum analysis as a video overlay that may be engaged or disengaged by the operator.

Performance is enhanced through the use of Maximal Ratio Combining spatial diversity. The transmitted signal is received through two separate antennas, and then combined. This provides significant performance benefits when one antenna alone would encounter a deep multipath null.

Features

- ▲ Full frame rate, high resolution, digital video
- ▲ Selectable bandwidth, 1.25 MHz, 2.5 MHz and DVB-T Compliant wideband 6, 7, 8 MHz
- ▲ Dual diversity, Maximal Ratio Combining
- ▲ Low latency across link
- ▲ Built in ABS (16 bits), AES 128 bit encryption, AES 256 optional
- ▲ Excellent sensitivity better than -100 dBm (2.5 MHz BW)
- ▲ Two high fidelity audio channels
- ▲ Data channel, half duplex, RS232 up to 115.2K Baud
- ▲ Video overlay showing status and spectrum monitor
- ▲ Operation in bands from 300 to 5000 MHz
- ▲ MPEG-2 or MPEG-4 compression
- ▲ Both NTSC and PAL video formats standard
- ▲ Optional video over multicast IP



Specifications

General

Video Format	NTSC, PAL (Auto Sensed)
Impedance	50 Ohms
Video Compression	MPEG II or MPEG 4
Horizontal Resolution	352, 480, 528, 704 Pixels, (Auto Sensed)
Frame Rate	NTSC-30fps, PAL-25fps
Video Latency (End to End)	As low as 53mS
Operating Frequency	UHF (300 - 400 MHz) L (1710 - 1850 MHz) S2/3 (2200 - 2400 MHz) S (2350 - 2500 MHz) C (4400 - 5000 MHz)
COFDM	400 Carriers
Occupied Bandwidth	1.25 MHz, 2.5 MHz or 5, 6, 7 MHz
Threshold (2.5 MHz BW)	QPSK 2/3 (-100 dBm), QPSK 1/3 (-102 dBm) 16QAM 2/3 (-94 dBm), 16QAM 1/3 (-96 dBm)
Aux. Data Channel Interface	RS-232, half duplex, up to 115.2K Baud
Control Port Interface	RS-232
Decryption Type	ABS, AES 128 bit key, 256 Optional
DC Voltage	10-16 VDC
AC Voltage	90-240 VAC 50/60 Hz (External AC Supply)
Streaming Video Over IP	IP Multicast (optional)

Models

- ▲ Pd2-RX-XX
- ▲ L1 band call for availability

