PD4D
Quad Digital Decoder

Features

- Four MPEG-4/MPEG-2 HD/SD decoders in one unit with ASI input and IP inputs
- Decodes standard MPEG formats including HD 1080i, 720p, 480p, and numerous SD formats including 720/704x480i
- Decodes one stereo pair or mono decoded from MPEG-1 LII or Dolby AC-3® synchronized with the video channel
- Four independent HD-compatible component video outputs and stereo L & R audio or four independent SD baseband video outputs and stereo audio to allow plug and play with common audio/video equipment
- Program selection from ASI or IP SPTS
- IP input allows program selection using IP address and port number
- The BNC ASI input is looped to a BNC ASI output to support additional downstream transport stream processing applications
- 19 inch, 1-RU size for standard rack mounting
- Efficient internal switching mode power supply offers universal power input from 90 VAC to 240 VAC
- Commonly used in CONDOR digital CATV systems for digital to analog conversion
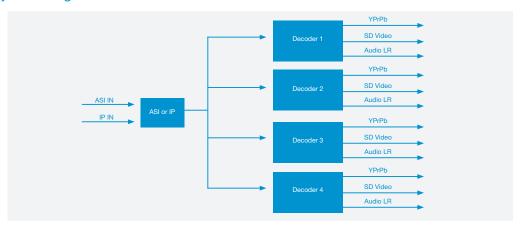- Closed Caption supported

System Diagram

Specification

ASI Input

Connector	1 x 50 Ω BNC
Format	DVB-ASI (EN50083-9)
Rate (Transport Stream)	160 Mbps
Packets Sizes	188/204 (AUTO)

IP Input

Connector	RJ-45
Format	10/100/1000 Base-T Ethernet SPTS only
Rate (Transport stream)	160 Mbps
Packet Sizes	188 (1 to 7 per IP packet) (SPTS per IP address)

Note 1: The PD4D does not support IGMP, therefore static multicast routing needs to be configured on any switches to allow the multicast to flow to the PD4D
Note 2: The PD4D sends periodic gratuitous ARP, this may disturb unicast IP video playout on a Windows PC
Note 3: Each multicast IP stream should be on a separate multicast IP address

ASI Loop-Through Output

Connector	1 x 50 Ω BNC

Video Outputs

Component Video	
Frequency Range	DC to 10 MHz
Level	1.2 V pk-pk
Impedance	75 Ω
Connector Type	RCA x 4

Video Outputs

Composite Video	
Frequency Range	DC to 4.2 MHz
Amplitude Level	1 V pk-pk
Impedance	75 Ω
Connector Type	RCA x 4
Flatness	± .75 dB

Audio L&R

Frequency Range	20 kHz to 15 kHz
Level	5.6 V
Flatness	± 1.2 V
Impedance	10 k Ω

Decoding

Video Codecs	MPEG4/AVC/H.264 HP@L4 (HD+SD)
	MPEG-2 MP@HL (HD+SD)
Audio Codecs	MPEG-1 LII, Dolby AC-3®

Note 1: Aspect ratio and resolution of output is determined by input: no transcoding
Note 2: HD programs are output as HD YPrPb and down converted to SD composite video

User Interface

LCD	2 line x 16 character
Buttons	Six (Up/down/left/right/enter/back)
Alarm Indicators	3 x LED

General

Dimensions	19" (L) x 12.25" (D) x 1.75" (H)
Weight	5.70 lbs
Operating Temperature	0 °C to 50 °C
Power Supply	90 VAC to 240 VAC, 47 Hz to 63 Hz
Consumption	50 Watts
Close Caption	Yes

Ordering Information

PD4D   Quad Digital Decoder