Features

- Four H.264/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

```
ASI IN
ASI or IP

Decoder 1
 YPrPb
 SD Video
 Audio LR

Decoder 2
 YPrPb
 SD Video
 Audio LR

Decoder 3
 YPrPb
 SD Video
 Audio LR

Decoder 4
 YPrPb
 SD Video
 Audio LR

IP IN
```

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## 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
| Frequency Range | DC to 10 MHz |
| Level | 1.2 V pk-pk |
| Impedance | 75 Ω |
| Connector Type | RCA |

### Video Outputs - Composite
| Frequency Range | DC to 4.2 MHz |
| Amplitude Level | 1 V pk-pk |
| Impedance | 75 Ω |
| Connector Type | RCA |
| Flatness | ± .75 dB |
| Closed Caption | Yes |

### 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**: 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

### Ordering Information
- **PD4D**: Quad Digital Decoder