

## HBR-2502 SMPTE SDI & DVB-ASI MODULES HBR-SD



IPITEK HBR SMPTE personality modules offer users the capability to transport SMPTE 259M-C Serial Digital and ITU-R-601, 656-2 video at standards-based 270 Mbps over the multi-channel HBR-2502 digital transport system.

All data embedded in the SDI signal, including embedded audio data and EDH information, are passed transparently through the HBR-2502 system.

These modules can also transport DVB-ASI signals in compliance with EN 50083-9. DVB-ASI serves as a standardized means to transport MPEG-2 video, making it ideal for cable operators to migrate to digital television and Video-On-Demand applications.

Alarm and status monitoring are included with the modules. A front panel LED indicates the module health, while detailed status and configuration controls are accessed via the HBR terminal's node controller, Craft tool or NodeWizard element management system.

### FEATURES & BENEFITS

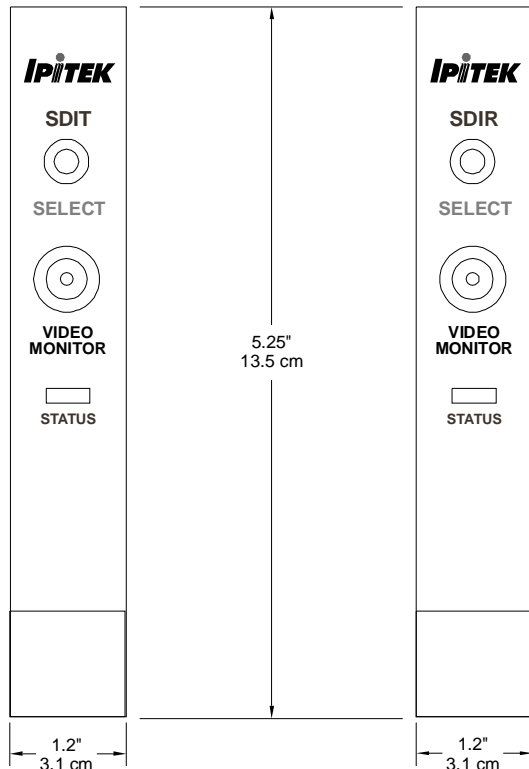
- Support 270 Mb/s SDI (SMPTE 259M-C) or SDTI (SMPTE 305M)
- Support DVB-ASI (EN50083-9)
- Transmit Interface with Built-In Automatic Cable Equalizer and Re-Clock Circuitry
- Hot Swappable
- LED Status/Fault Indication
- Front-Panel Monitoring Capabilities

A Front panel connector provides convenient local monitoring of the SDI signal. The module includes non-volatile memory containing module identification and tracking information.

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With dual purpose SDI and DVB-ASI cards, the HBR 2502 lives up to its reputation as a true universal digital transport platform, providing whatever applications you need. Among these are studio quality NTSC/PAL baseband video, IF video, data services like T3/E3, T1/E1, 10Base-T Ethernet or 100Base-T Fast Ethernet. In addition, the HBR's add/drop/pass capability allows all signals to be flexibly transported and routed according to customer requirements.

## MECHANICAL



## SPECIFICATIONS

### Transmit Interface Module (video input)

Signal Format: Bit Serial; ANSI/SMPTE 259M-C 1997; ITU-R (CCIR) 601, 656-2; DVB-ASI (EN 50083-9)  
 Input Impedance: 75 ohms  $\pm$ 5%, unbalanced  
 Connector: BNC  
 Input Cable: 0 to 300 ft, 91 meters of Belden 8281 or equivalent  
 Return Loss: > 15 dB (up to 270 MHz)

Signal Format: Bit Serial; ANSI/SMPTE 259M-c 1997; ITU-R (CCIR) 601, 656-2; DVB-ASI (EN 50083-9)  
 Output Impedance: 75 ohms  $\pm$ 5%, unbalanced  
 Connector: BNC  
 Return Loss: > 15 dB (up to 270 MHz)

### Environmental

Operating Temperature: 0°C to 50°C  
 Storage Temperature: -55°C to 75°C  
 Operating Humidity: to 90%, non-condensing  
 Dimensions: 5.25"H x 1.2" W x 8.58"D (13.5cm x 3.1cm x 22 cm)

### Receive Interface Module (video output)

## ORDERING INFORMATION

HBR	-	SD	-	XXXX
<i>HBR-250X System Compatible</i>		Type SD = Serial Digital Interface Module		Option 2701 = SMPTE 259M, SDI 270 Mb/s transmit 2702 = SMPTE 259M, SDI 270 Mb/s receive



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