

## HBR-2502 DS3/E3 MODULE HBR-D3/HBR-E3



The IPITEK HBR-2502 DS3/E3 module transmits and receives 1 standards-based DS3 or E3 bi-directional signal over the multi-channel HBR-2502 digital transport system.

The DS3/E3 cards are used to transport various services through the IPITEK HBR-2502. The card is designed to support both voice and data services. Its universal design uses a concept of simply extending the signal from one point to another. Typical uses include transport of channelized voice circuits as well as transporting ATM, FR, Ethernet/IP or compressed video traffic.

When ordered as a DS3 interface, the module complies with GR-499-CORE, Section 9 (44.736 Mb/s rate, DSX-3 interconnect specification, bipolar 3-zero substitution (B3ZS) encoding). When ordered as an E3 interface, the module complies with ITU-T G.703. Line Build out settings are available for up to 450 feet of coaxial cable.

### FEATURES

- Support standards-based DS3/E3
- Modular Design
- Hot Swappable
- LED Status/Fault Indication

### APPLICATIONS

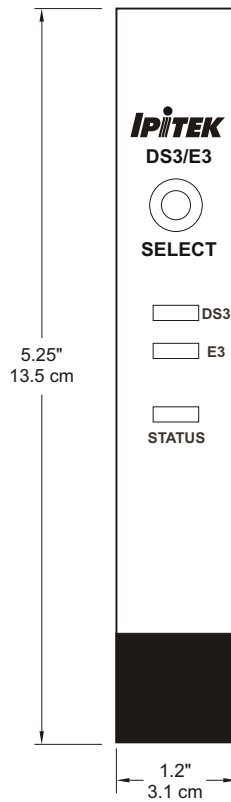
- Telephony
- Compressed Video such as MPEG
- LAN interconnection
- ATM and other data services

Alarm and status monitoring are included with the modules. Front panel LEDs indicate signal state and module health, while detailed status and configuration controls are accessed via the HBR terminal's node controller or NodeWizard element management system.

The module is equipped with non-volatile memory that contains module identification and tracking information.

With DS3/E3 modules, IPITEK's HBR-2502 lives up to its reputation as a true universal digital transport platform, providing any applications that you may require: studio quality NTSC/PAL baseband video, IF video, and data services including DS3/E3, DS1/E1, 10Base-T Ethernet or 100Base-T Fast Ethernet. In addition, the HBR-2502's add/drop/pass capabilities allows all signals to be flexibly transported and routed according to customers requirements.

## MECHANICAL



## SPECIFICATIONS

### DS3 Interface

Line Build Out (LBO):	0-450 ft.
Bit Rate:	44.736 Mb/s, $\pm 20$ ppm
Line Code:	B3ZS
DSX Pulse Shape:	Per ANSI T1.404, and TR-NWT-000499
Impedance:	75 ohms nominal
Jitter Tolerance:	Per ANSI T1.102, Bellcore TR-TSY-000499
Connector:	BNC

### E3 Interface

Bit Rate:	34.368 Kb/s $\pm 20$ ppm
Line Code:	HDB3
Pulse Shape:	ITU-T G.703 Figure 17
Input Impedance:	75 ohms $\pm 5\%$
Jitter Performance:	Per ITU-T G.823

## ORDERING INFORMATION

**HBR**

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**XX**

*HBR-250X Series  
Compatible*

**Type**

**D3** = DS3 transport module  
**E3** = E3 transport module

**IPiTEK**

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IPiTEK reserves the right to modify product specifications without prior notification.

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