HBR-2502 Quad DVB-ASI MODULES
HBR-DVB

FEATURES

- **Supports up to 4 individual DVB-ASI ports per module, up to 64 ASI ports in a single chassis.**

- **Transports only the TS packet payload over the OC-48/STM-16 link for maximum efficiency**

- **Decoder port output rate is adjustable in 1 Mb/s increments and automatic link rate provisioning provide easy setup**

- **Encoder port setup is automatic, simply set link rate to match decoder link rate**

- **Total aggregated rate across the OC-48 link, including overhead is adjustable from 27 Mb/s up to 216 Mb/s in 8 steps per module .**

The IPITEK HBR-DVB provides Quad DVB-ASI ports per module. It allows transmit and receive up to 4 independent DVB-ASI per module or 600 MPEG-2 or 122 HDTV per wavelengths via the HBR-2502 digital transport system.

The Asynchronous Serial Interface (ASI) is a standard developed by the European Digital Video Broadcasting (DVB) standards association. The DVB-ASI standard is intended to provide simple transport and interconnection of MPEG-2 streams between different manufacturer's equipment.

Quad DVB-ASI modules allow customers to economically and efficiently transport compressed SDTV or HDTV streams over a SONET/SDH network. The standards-based DVB-ASI interface design is also found on digital video MPEG-2 or MPEG-4 encoders, processors, satellite receivers, servers and modulators QPSK/QAM . Thus a myraid of transport solutions become available with HBR-2502.

Each DVB-ASI channel can transport 188 or 204 byte MPEG-2/4 Single Program Transport Stream (SPTS) or Multi-Program Transport Stream (MPTS) packets, each with a different data rate as long as the aggregate data rate does not exceed the assigned link bandwidth.
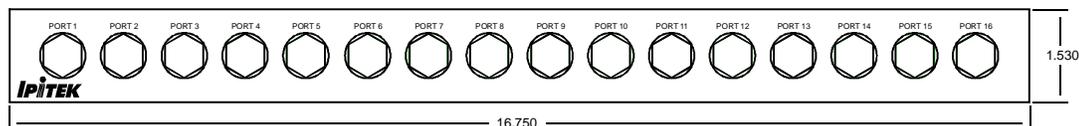
The assigned link bandwidth for the module is programmable in 27 Mb/s increments in 8 steps up to the full 216 Mb/s ASI standard maximum.

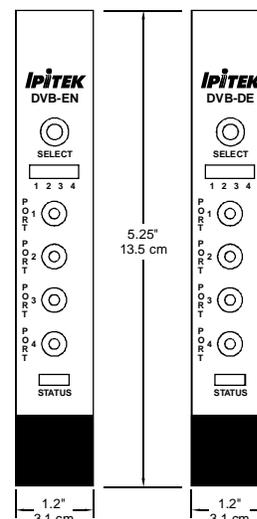The maximum port speed is a generous 150 Mb/s.

The end-end configuration and management can be done conveniently via the integrated NodeController or remotely through the NodeWizard Element Manage-ment System.

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

IPITEK FIBER OPTIC DIGITAL TRANSPORT

RACK MOUNT BNC PANEL

MECHANICAL

| PORT 1 | PORT 2 | PORT 3 | PORT 4 | PORT 5 | PORT 6 | PORT 7 | PORT 8 | PORT 9 | PORT 10 | PORT 11 | PORT 12 | PORT 13 | PORT 14 | PORT 15 | PORT 16 |

1.530

16.750

SPECIFICATIONS

DVB-ASI Interface

Number of ports:	4, Independent, Programmable
Bandwidth/Module:	0 to 212 Mb/s (aggregate user data)
Connector:	SMC[1], 75 ohm
Baud Rate:	270 Mb/s ±100ppm
Max Cable Length:	200 meters, Belden 8281, Auto-Eq
Amplitude:	800 mV ±10%
Layer 2 Protocols:	transparent, DC coupled and scrambled
ASI Input (DVB-EN):	Burst Packet Mode or Spaced Byte Mode, auto-sensing
MPEG-2 Input:	188 Byte or 188+16 Byte, auto-sensing
ASI Output (DVB-DE):	Burst Packet Mode or Spaced Byte Mode, configurable
MPEG-2 Output:	188 Byte or 188+16 Byte
Standard:	CENELEC EN 50083-9

[1]One BNC/SMC jump cable provided.

Module Provisioned Bandwidth (maximums for equal port speeds vs link allocations)

User BW Mb/s	Total Module BW Mb/s	Link BW Mb/s (TDM* bits)	Modules per one-way link
4 ports x 53	212	216 (8)	10
4 ports x 46	184	189 (7)	12
4 ports x 39	156	162 (6)	14
4 ports x 33	132	135 (5)	16
4 ports x 26	104	108 (4)	16
4 ports x 19.5	78	81 (3)	16

port routing overhead accounts for the difference between user BW and link BW

* TDM bit = 27 Mb/s, HBR-2502 link allocations use 44 TDM bits per group two groups per 2.5Gb/s link where a module must be assigned wholly to one of the groups

Environmental

refer to HBR-2502 system specifications

ORDERING INFORMATION

HBR	-	DVB	-	XX
HBR-250X SERIES COMPATIBLE		**Type** **Programmable Quad DVB-ASI Module**		**Type** **DE** = Decoder module **EN** = Encoder module

HBR	-	XXX	-	DVB	-	XX
HBR-250X SERIES COMPATIBLE		**Type** **CBL** = 6 ft. SMC to BNC converter cable, 1 for each port* **PNL** = Rack-mountable BNC panel, 1 for every 16 ports		**Data Type** DVB-ASI		**Cable Length** **06** = 6 ft. length **25** = 25 ft. length (leave blank for BNC panel)

*6 ft. converter cable included with each PIM card, use this number to order additional cables.

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