

I-MUX Inverse Multiplexer

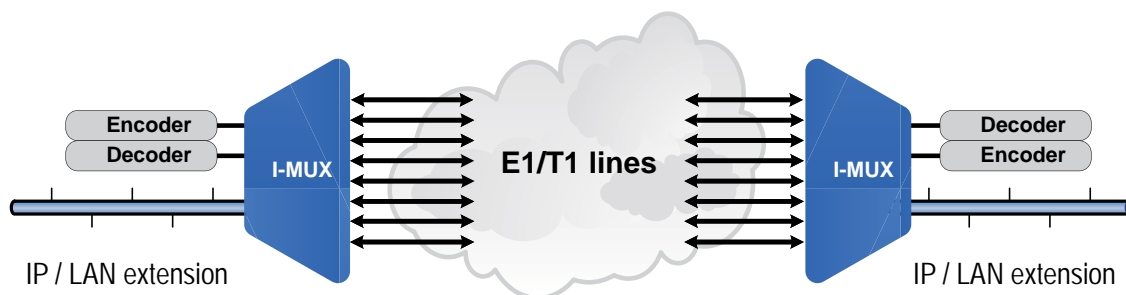


DVB-ASI, and IP data over a single or multiple E1/T1 lines

"Ideal for use where high capacity circuits are not available or expensive."

Live Studio Feeds TV Transmitter Links Satellite Back Haul High Speed Internet

- **Bandwidth tailoring**
Tailor your bandwidth provisioning to meet your bandwidth requirements by utilising from one to eight E1 (2.048 Mbps) or T1 (1.544 Mbps) circuits
- **Two levels of Reed Solomon FEC**
Selectable 4 Byte or 16 byte formats
- **Caters for up to 64ms of differential delay**
Large buffer capacity removes any concerns of diversely routed circuits
- **T1 framing facilities**
The unit will provide T1 framing for those situations where framed circuits are provided by the Telco (primarily in the USA)
- **Optional web server interface**
Web server connection for remote monitoring and control
- **Dual power supplies**
Complete security of power supply
- **Internal protection switching**
Use two or more E1/T1 circuits to provide a managed '1+1' or 'n+1' protection capacity for high availability services.
- **Bi-directional ASI data ports**
Support DVB ASI formats 188, 204PAD/RS
- **10/100 Base T IP data port**
Data in IP format can now be transmitted or received directly from the 10/100 Base T port in addition to, or as an alternative to the ASI stream
- **SNMP remote monitoring port**
A port is provided for connection to a SNMP monitoring system



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IP and ASI payload

Error Correction	4 Byte RS FEC	16 Byte RS FEC
IP and MPEG Payload per E1 link	1.97 Mb/s	1.85 Mb/s
Maximum IP and MPEG Payload per E1 System (8 links)	15.76 Mb/s	14.8 Mb/s
IP and MPEG Payload per T1 link	1.48 Mb/s	1.40 Mb/s
Maximum IP and MPEG Payload per T1 System (8 links)	11.84 Mb/s	11.2 Mb/s

Technical Specifications

MPEG Interface

DVB ASI Compliant.
 ASI formats supported: 188, 204 PAD/RS
 Traffic takes priority above TCP/IP

E1/T1 Circuit Interface

Complies with ITU-T G.703
 Jitter compliance: ITU-T G.823
 Impedance: 75 ohm unbalanced
 120 ohm balanced

TCP/IP Data Port

10/100 base T
 Any data rate up to available bandwidth.
 Second priority to DVB ASI traffic.

System

Maximum number of bi-directional E1/T1 links: 8
 Maximum delay variance between links : 64ms

Forward Error Correction

Reed-Solomon, 4 Byte or 16 Byte

Management and Control

Front panel interface for local control
 Remote monitoring is offered by optional web server and SNMP

Mechanical

Height: 43.6mm (1U)
 Width: 482.6mm (19")
 Depth: 383mm (15") incl. connectors
 Weight: 5.6kg (12.3lbs)

Power Supply

Dual supply, single phase auto-ranging
 Power consumption 6W max.
 Choice of: 100-240VAC (50-60Hz)
 or: 36-72V DC (factory fitted option)

Environmental

Operating temperature: 0°C to 45°C
 Storage temperature: -5°C to 70°C