



BLACK BOX[®]

NETWORK SERVICES

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E1 Multiplexer



*Combine both Voice
and Data over E1*

Key Features

- ▶ G.703 and G.704 Support.
- ▶ Internal and External Clock Sources.
- ▶ FXO, FXS and E&M Voice Supported.
- ▶ X.21 and V.35 Data Supported.
- ▶ Simple configuration with VT100 Console Port or SNMP MIB II.
- ▶ Unrestricted timeslot allocation.

Specifications

Connections

Link Connections — (2) BNC Connectors, 75 ohm unbalanced and (1) RJ45 120 ohm balanced

Data Channel Connections — X.21/V.11 or V.35 configured as DCE on DB15 F

Management

Configuration — SNMP or VT100 Console

Management Engine — SNMP MIB II

Engine (Converter)

Data Rates — G.703; 2.048 Mbps, G.704; 0 – 1.984 Mbps in N x 64 kbps steps
Compliance — G.703, G.704, G.721, G.823, PD7024, CTR12, CTR13, EN300386, EN60950, CE

Operating Environment

Operating Temperature — 0° to + 40° Celsius

Power — Input 100 - 240VAC 50-60Hz through an IEC320 Socket
Optional: - 48 VDC

Size — 16.7H x 43.7W x 36D cm (4U high, 19" rackmountable)

Weight — 2 Kg (when fully loaded)

The Envoy digital multiplexer is the ideal way to manage both voice and data traffic simultaneously over a single G.703 or X.21 / V.35 links. The Envoy is based on an 8 slot chassis with a range of cards available to suit most applications. The chassis can be either mains powered or through a -48VDC supply suitable for telecom switch rooms etc...

The voice cards use either PCM (Pulse Code Modulation) or ADPCM (Analogue to Digital Pulse Code Modulation) techniques to digitize the analogue voice, and use a definable amount of bandwidth per voice channel. There are solutions for both 2 wire and 4 wire analogue voice lines. There is independent attenuation / gain control, ranging from 0 to 7 dB for each channel, and there is no need for an

external ROLI / RILO because the cards will pass through all Ring control.

The data cards can support X.21 or V.35 interfaces and offer a data rate of between 64K and 1.984Mbps per channel, up to a maximum composite speed of 1.984Mbps.

The chassis and the cards can all be managed through either a VT100 Console port, or through an SNMP MIB II Ethernet connection allowing configuration to also take place through SNMP.

Ordering Information

Item	Code
ENVOY E1 Multiplexer	
ENVOY E1 Multiplexer 8 Slot Chassis	MXU9940
E1 Composite Link Card (G.703)	MXU9941C-G703
N x 64K X.21 / V.35 Composite Card	MXU9941C-X21V35
Dual Port N x 64K Data Channel Card	MXU9942C-X21V35
Quad Voice Card FXO Signalling	MXU9943C-FXO
Quad Voice Card FXS Signalling	MXU9943C-FXS
Quad Voice Card E&M Signalling	MXU9943C-E&M



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