



MUX-12A-IP

12:1 ASI-to-IP Multiplexer 12x ASI ◀▶ 1x GbE

MUX-12A-IP (Multiplexer; 12:1 ASI-to-IP) is designed for cherry-picking applications, allowing operators to create custom-made channel lineups by grooming standard-definition (SD) and high-definition (HD) programs on an as-needed basis.

The multiplexer accepts up to twelve (12) unencrypted MPEG-2/H.264 inputs in ASI format, and multiplexes them into to one MPEG-2/H.264 Multi-Program Transport Stream (MPTS) which is then encapsulated and assigned to a single IPv4 address in 1000Base-T Ethernet (GbE) format suitable for distribution over Cat-5 networks. Two identical MPTS outputs are also available in ASI format.

Each ASI input stream can contain up to 12 unencrypted programs, for a total of 144 input programs. The GbE output (single IPv4 address) can contain up to 20 programs groomed from any of the available 144 input programs, not to exceed 214 Mbps.

The multiplexer is **EAS-compliant (Emergency Alert System)** – operator can assign ASI port #12 as an EAS input which, when activated, will override the content of all other ASI inputs. Comprehensive remote monitoring and control is accomplished via a GUI-based interface using any standard Web browser.



Features

ASI Input

- Supports unencrypted MPEG-2/H.264 Single or Multi Protocol Transport Services (SPTS or MPTS)
- ASI port #12 is user-selectable for EAS messaging
- Supports 12 unencrypted ASI inputs, each up to 270 Mbps
- Performs PCR (Program Clock Reference) correction
- Performs Null Packet insertion & deletion

GbE Output

- Provides robust protection against IP network jitter and delay
- Performs PCR (Program Clock Reference) replacement
- Supports Uni- and Multi-cast thru RTP/UDP protocols
- Supports IPv4, ARP, IGMPv2, and ICMP protocols
- Supports variable and constant bitrates
- Provides a single IPv4 address & port

Ordering Information

Model	Stock #	Description
MUX-12A-IP	6517	12:1 ASI-to-IP Multiplexer; 12xASI inputs; 1xGbE output + 2xASI ancillary outputs; EAS compliant



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Specifications

INPUT

Connectors 12 x BNC
Format DVR-ASI 270 Mhz

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MULTIPLEXING PROFILE

No. of programs per input ASI: 12 Unencrypted Multi-program Transport Stream (MPTS)

No. of PID per program:	10 per SPTS including PAT, PMT, PSIP
Packet ID (PID) management:	User-defined editing/re-mapping is allowed
PAT (Program Association Table):	Supported
PMT (Program Map Table):	Supported
VCT (Virtual Channel Table):	Supported
MGT (Management Table):	Supported
Audio standards:	Dolby® AC3, MPEG-1 layer 2, AAC
Audio Services per program:	3 max

GENERAL

Dimensions (W x D x H) : 19.0 x 16.875 x 1.625 inches (483 x 429 x 41 mm)
Power: 115 to 230 VAC/50 to 60 Hz

Power Dissipation:	17 W
Weight:	7 lbs (3.2 kg)
Operating Temperature:	32 to 122 °F (0 to 50 °C)
Storage Temperature:	-13 to 158 °F (-25 to 70 °C)
Operating Humidity:	0 to 95% RH @ 35 °C max, non-condensing
Storage Humidity:	0 to 95% RH @ 35 °C max, non-condensing

OUTPUT

1000Base-T Ethernet (GbE)
Connector: 1 x RJ45

Data Throughput:	214 Mbps
Standard:	IEEE 802.3 10/100/1000Base-T Ethernet
UDP/RTP:	Supported and user-selectable
Address Assignment:	Single IPv4 address & port; user-selectable
ASI	
Connector:	2 x BNC
Format:	DVB-ASI
Data Throughput:	214 Mbps
Standard:	ETSI EN 50083-9

ALARMS / MONITORING / CONTROL

Indicators:
Front Panel: Power (1x Green LED)

Rear Panel:	Status (1x Green LEDs)
Remote Monitoring/Control:	GUI-based menu via Web browser Front-panel RJ45 interface (10/100 Base-TX Ethernet)
SNMP v2:	Temperature ASI Status Error Log