MODEL

AGB240

ASI TO GIGABIT ETHERNET BRIDGE

An Ultra-Low Power Device that Migrates Legacy ASI Video Service Outputs to the IP Backbone

Highlights Include:

- Maps up to 24 MPEG2 Transport Streams from ASI to IP

- 931Mbps aggregate bridge bandwidth

- Less than 20W maximum power draw

- Mounts in 1 RU (rack unit)

- 24 ASI input ports

- Extended reach ASI cables up to 1,000 feet / 300 meters

- Front panel ASI monitor port

- Choice of copper (included) or SFP Gigabit Ethernet connection

- Redundant internal power supply, unit runs on single power supply

- Built in surge protection

- Rear panel grounding lugs

- Dual 10/100 Ethernet ports for redundant control path

- Web-based User Interface for easy setup and diagnostics

- Basic SNMP agent

- Front panel LEDs for at-a-glance diagnostics

The Motorola AGB240 delivers highly reliable ASI to Gigabit Ethernet bridging for legacy video services. It is intended to bridge traffic from ASI-output IRDs, Encoders, video routers, and other video sources to a common Gigabit Ethernet IP backbone or transport network.

ASI inputs typically carry either pure transport stream (TS) payload, or TS with null stuffing. Up to 24 inputs with TS payload can be bridged and output to the GbE interface.

The front panel of the AGB240 includes at-a-glance LED status for all major functions, as well as the access point for the payload Gigabit port, the 10/100 control ports, and the ASI monitor port. The LEDs include individual LEDs for each of the twenty-four ASI inputs, a power supply status LED, plus the Ethernet status LEDs. Both control ports can be active simultaneously providing a redundant dual path access to the unit for remote diagnostics. The Gigabit Ethernet provides a single port for IP payload output. The user may select whether to connect the AGB240 to the IP backbone via copper or optical SFP.

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TECHNICAL SPECIFICATIONS

ASI Input

24 rear-mounted ASI input ports
BNC female connector
Input Impedance : 75 Ω
Individually configure as receiver, or muted
Coax cable length up to 1,000 feet / 300 meters

MTS Stream Processing

Up to 213.73 Mbps per ASI input
188-byte MPEG-2 TS packets, burst or byte mode
Input MTS may be CBR or VBR
Video/Audio MTS bit-rate from 192Kbps to 213.73Mbps
Data MTS bit-rate from 192Kbps to 213.73Mbps
Auto packet drop if configured MTS rate is exceeded

Gigabit Ethernet Output

One configurable Gigabit Ethernet output (either included RJ-45 or SFP)
931.45 Mbps aggregate Ethernet payload output
Latency from time of ASI arrival to GbE output: 100 μseconds
IEEE 802.3 compliant
Up to 24 MPEG-2 TS output over UDP
Maximum bit-rate of each MTS output is the configured rate
IPv4 Source/Dest address, and Source/Dest UDP address
IPv4 Dest address may be multicast

10/100 Ethernet Control

Dual RJ-45 connectors provide option for redundant control path
Static IP address (default) or DHCP
Recessed IP reset switch on front panel restores IP address, netmask to default
UI includes administration, configuration, monitor, status
Supports firmware update
Non-volatile storage of factory firmware and one working firmware image
Non-volatile configuration storage
Non-volatile storage of 200 most recent events
Basic SNMP Agent provides device identity information, status, and SNMP traps
Internal clock or SNTP

ASI Monitor Port

1 (one) front-mounted ASI monitor port
BNC female connector
Input Impedance : 75 Ω
Monitor any MPEG-2 TS immediately after receive at ASI input
Monitor any MPEG-2 TS immediately before transmit at Gigabit output

Physical

Width:	19″, mounts in 19″ rack
Depth:	12.75″ including connectors
Height:	1.75″ mounts in one RU space
Mounting Weight:	Six pounds (6 lb)
Power Input:	90-264 VAC, 47-63Hz, 20 W max

Redundant internal power supply, unit operates on single power supply
Internal surge protector

Operating Temperature:	0C to 50C
Operating Humidity:	5 to 95%, relative maximum
Operating Altitude:	-200 to 10,000 feet
Storage Temperature:	-40C to 70C
LEDs:	24 ASI, 1 power, status for each Ethernet port

Dual lug chassis ground on rear panel

Regulatory

Electromagnetic Compatibility (EMC):
US: FCC Part 15 Class A
Canada: ICES-003 Class A
European Union (EU) - CE Mark: EN 55022:2006/A1 Class A Emissions, EN 55024 Immunity
Australia: C-Tick Mark
Other Nations: CISPR 22 Class A Emissions

Safety:
US/Canada: UL Listed to UL 60950-1 Second Edition
European Union(EU) - CE Mark: EN 60950-1 Second Edition
Argentina: UL-AR / S-Mark
Other Nations: CB Scheme Certificate IEC 60950-1 Second Edition

Ordering

AGB240 24-port ASI to Gigabit Bridge, Motorola Part #573546-001-00
850nm SFP Motorola Part #551742-002-00
1310nm SFP Motorola Part #551755-001-00

1550nm SFP Motorola Part #551767-001-00
1000bT (copper) SFP Motorola Part #551771-002-00

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