



ERICSSON MA5400 IP VIDEO GATEWAY



The Ericsson MA5400 IP Video Gateway is a market leading solution, enabling transmission of real-time video over Internet Protocol (IP) networks. The design provides flexible configurations allowing carriage of up to sixteen MPTS/SPTS transport streams with Gigabit Ethernet network connectivity within a 1RU chassis.

The MA5400 is a high quality real-time MPEG-2 Transport Stream to IP encapsulator. Based on open standards, the MA5400 has been designed to meet the demanding requirements of post production distribution and contribution applications where multiple Transport Streams are transported through a single connection over an IP enabled network.

The MA5400 is fully bi-directional in both ASI and IP and can be software configured to enable transmit, receive or a combination of both. The product has been equipped with the latest advances in error correction for maximum reliability through the implementation of SMPTE 2022 Pro-MPEG FEC. The state-of-the-art processing power and extremely compact design enable new system architectures to be created allowing content to be freely distributed around a network.

BUSINESS BENEFITS

Cost-Effective

The MA5400 enables operators to take advantage of the associated cost-savings in using IP networks such as increased flexibility, triple play of real-time video, voice and data over a single network infrastructure.

Reliable Transmission

Reliable broadcast quality transmission of content over IP networks is achieved through the implementation of SMPTE 2022 Pro-MPEG Forward Error Correction at the IP layer.

Space Efficient

The 1RU chassis provides a compact solution for encapsulation/de-encapsulation of MPEG-2 Transport Stream while enabling up to 16 ASI SPTS/MPTS transport streams to be handled.

Control and Monitoring

The MA5400 can operate standalone through the use of the native integrated web interface or through nCompass by Ericsson providing unit configuration and redundancy control in addition to high level monitoring. The MA5400 can provide a single point of presence on the network by providing data and in-band control via a single network connection.

OPTIONS

The MA5400 can be enhanced with the following options:

- Four port ASI input card (MA5400/HWO/4ASI)
- Optical interface (SFP) (MA5400/HWO/GIGE/OPT)
- Forward Error Correction (MA5400/SWO/FEC)
- SNMP and Command Line Int. (MA5400/SWO/SNMP/CLI)
- Two port Bi-directional (MA5400/SWO/2+2BI)
- Four port Bi-directional (MA5400/SWO/4+2BI)

BASE UNIT FEATURES

MA5400 Single Base Unit (MA5400/SOLOBAS)

MA5400 Double Base Unit (MA5400/DUOBAS)

MA5400 Single Base Unit with 48V PSU (MA5400/SOLOBAS/48V)

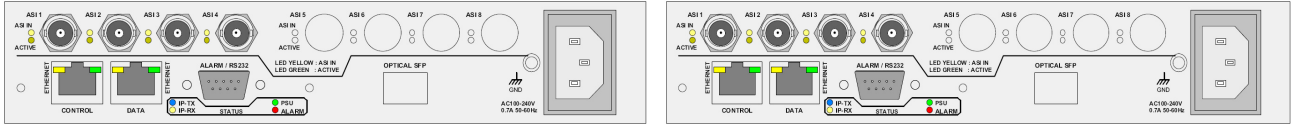
MA5400 Double Base Unit with 48V PSU (MA5400/DUOBAS/48V)

The MA5400 base unit has been designed with four ASI and a Gigabit Ethernet port as standard and can be customized to meet the operator's exact needs.

- ASI to IP encapsulation or IP to ASI de-encapsulation
- Electrical gigabit (GigE) RJ45 Ethernet data interface
- Dedicated fast Ethernet control interface
- IP transmission using unicast or multicast per ASI port
- Web page control
- In or Out of band control
- Alarm relay contact
- IEEE 802.Q VLAN Tagging per ASI to IP mapping
- Multicast IGMPv2 per ASI port



SAMPLE CONFIGURATION



Two 1/2 width 1RU mounted in provided 19" rack mount configuration.

SPECIFICATIONS

Transport Stream Interfaces

Four DVB ASI Interfaces (Copper) BNC, maximum eight using option module

Network Interfaces

100/1000BaseT Ethernet

802.6 Ethernet, ARP, IPv4, RTP/UDP

700 Mbps usable Ethernet

Ethernet MTU Length <1500 (IPv4)

RJ45 electrical connector

Features

Modular architecture

Supports Pro-MPEG FEC CoP3 'Forward Error Correction' (Columns and Rows)

IEEE 802.Q VLAN Tagging

Alarm relay contacts

Control

RS-232 port (IP Address Setting)

Alarm relay contact, 9-way D-type

10/100BaseT Ethernet (RJ45)

Element control via HTTP/WEB

Configuration import/export via XML

In-band control

Control applications (nCompass Control by Ericsson)

Physical and Power

Dimensions (W x D x H)

1RU unit, 1/2-width 19" 210 x 300 x 44.5mm

Two units in 19" 1RU rack space
19" rack mounting kit supplied

Input Voltage

110 VAC to 120 VAC / 220 VAC to 240 VAC

48 VDC option

Approximate Weight

10 kg (22 lbs)

Environmental Conditions

Operating Temperature

0°C to 50°C (32°F to 122°F)

Storage Temperature

-20°C to 70°C (-4°F to 158°F)

Humidity

0% to 90% (non-condensing)

Compliance

CE

CE marked in accordance with 93/68/EEC (22/07/03) Directive

UL

Designed for UL approval

Safety

IEC60950 and EN60950

EMC

EN55022, EN55024, EN6100-3-2