MA5410
IP Video Gateway

The MA5410 IP Video Gateway is a high quality real-time SDI or SDTI to IP encapsulator. Based on open standards, the MA5410 has been designed to meet the demanding requirements of professional broadcast contribution, studio-to-studio distribution and in-house signal distribution over an IP enabled network.

The MA5410 can be configured in either transmit or receive mode and enables a single SDI or SDTI feed to be carried over a GigE network. At the receive end, the MA5410 converts the feed back to an SDI, or SDTI, streams. The MA5410 will carry 10 bit video signal with embedded audio and VBI information and can handle both 525 and 625 video formats.

The product has been equipped with the latest advances in error correction for maximum reliability through the implementation of ProMPEG 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 MA5410 has been primarily designed to enable the transmission of high quality contribution video to be distributed over an IP network with minimum latency.

Reliable Transmission

Reliable broadcast quality transmission of content over IP networks is achieved through the implementation of ProMPEG Forward Error Correction at the IP layer.

Space Efficient

The 1RU chassis provides a compact solution for encapsulation/ de-encapsulation of SDI or SDTI feed.

Control & Monitoring

The MA5410 can operate standalone through the use of the native integrated Web interface or through TANDBERG nCompass providing unit configuration and redundancy control in addition to high level monitoring.

OPTIONS

The MA5410 can be enhanced with the following option:

Optical interface (SFP) (MA5410/HWO/GIGE/OPT)
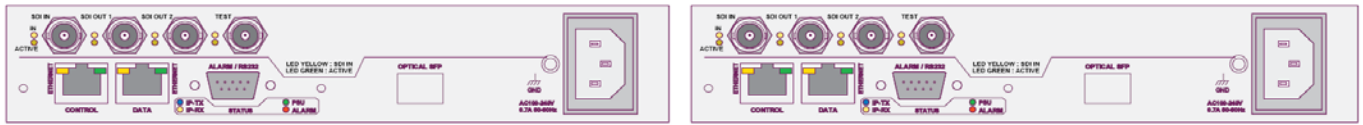
BASE UNIT FEATURES

MA5410 Base Unit (MA5410/SOLOBAS)

MA5410 Double Base Unit (MA5410/DUOBAS)

MA5410 Base Unit with 48 VDC (MA5410/SOLOBAS/48V)

- The MA5410 base unit has been designed with 1 SDI IN, 2 SDI OUT and a GigE port as standard
- SDI or SDTI to IP encapsulation or IP to SDI or SDTI de-encapsulation
- Frame Sync interface
- Electrical Gigabit (GigE) RJ45 Ethernet data interface
- Dedicated fast Ethernet control interface
- IP transmission using unicast or multicast
- Web page control
- In or Out of band control
- Alarm relay contact
- End-to-end Quality of Service (QoS) Support
- Multicast IGMPv2

SAMPLE CONFIGURATION - (MA5410/DUOBAS Units)

Two ½ width 1RU mounted in provided 19" rack mount configuration.

SPECIFICATIONS

Transport Stream Interfaces

1 SDI (SMPTE 259) Inputs (Copper) BNC

2 SDI (SMPTE 259) Output (Copper) BNC

Network Interfaces

1000Base-T Ethernet

802.3 Ethernet, ARP, IPv4, RTP/UDP

Ethernet MTU Length <1500 (IPv4)

RJ45 electrical connector

Features

Modular architecture

Supports ProMPEG FEC CoP4 'Forward Error Correction' (Columns and Rows)

Type of Service (TOS) Support

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 (TANDBERG nCompass)

Physical and Power

Dimensions

1RU, ½-width 19" (W x D x H) 210 x 300 x 44.5mm (Two units in 19" 1RU rack space)

19" rack mounting kit supplied

Input Voltage

100-120 / 220-240 VAC

48 VDC option

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

5% to 95% (non-condensing)

Compliance

CE: CE marked in accordance with 93/68/EEC (22/07/03) Directive
CSA: CSA approved
Safety: IEC60950 and EN60950
EMC: EN55022, EN55024, EN6100-3-2

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