

FLASHLINK

ETH1000-SW-COM

Multi-port data and GPI over IP with GbE switch

The ETH1000-SW-COM is a true IP networking card featuring encapsulation of multiple RS422, RS485, RS232 and GPI over IP together with a multi-port GbE switch with optical uplink

This product provides a compact and powerful solution for transport of device control data for live productions. The IP protocol allows for remote control of multiple devices at different locations, such as cameras located in different arenas. The card can also be used for point-to-point transport of data over dark fiber networks.

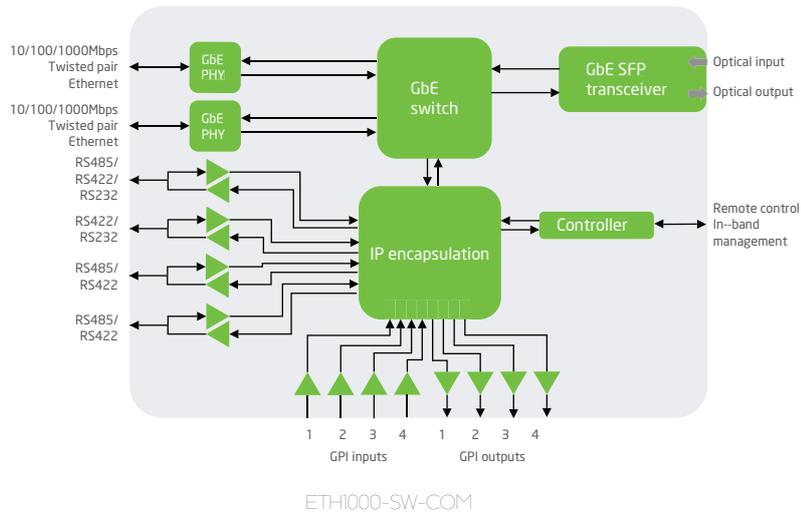
The integration with Nevision's extensive broadcast centric control surfaces covering configurable hardware panels and web panels makes the product easy to operate in live production applications.

Applications

- Live Media Networking
- OB productions
- Broadcast studio infrastructure
- Broadcast metro networking
- Dark fiber networking

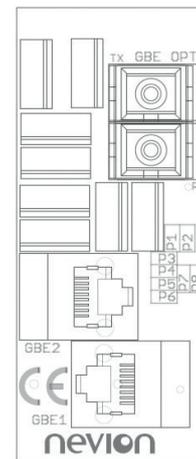
Key features

- 1x optical GbE uplink port
- 2x GbE port
- 4x RS422, RS485 and RS232 ports for device control
- 4x GPI input and 4x GPI output ports for tally and joystick
- Supports optical and electrical IP network topology
- Built-in GbE switch



The ETH1000-SW-COM transports serial data like RS422, RS232 and RS485 together with GPI over an IP network. The product also has a multi-port GbE switch with two GbE electrical ports and one GbE optical port connected. The serial data and GPI is also encapsulated into IP and presented to an internal port to this switch. Each serial data port gets its own IP port address allowing for individual routing of these ports to different devices in the network. As the serial ports can be routed to different locations also removes the need for external data routers.

Through Multicon system controller, the ETH1000-SW-COM integrates to both 3rd party management systems and Nevion's range of control surfaces covering configurable hardware panels, web panels and web control and configuration interfaces. The serial ports are presented in a routing table to emulate a data router allowing simplistic routing of the serial data and GPI.



ETH1000-SW-COM backplane

Supported standards

Gigabit Ethernet IEE 802.3, 10 BASE-T, 100 BASE-T, 1000 BASE-T
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General

Power	+5V/?W
Configuration	Multicon GYDA web interface, SNMP, DIP switches
Monitoring	Multicon GYDA, SNMP, LED, GPI

Application layer Ethernet ports

Gigabit Ethernet	2
Connectors	RJ45

Network/fiber transport layer

Gigabit Ethernet	1
Connector	Dual SC/UPC
Optical system	See Nevion's range of GbE SFP

Configurable serial data port

Signal format	RS232 or RS422/ RS485
Number of ports	2
Connector	Molex KK 5pin
Supported bit rates	9600 bps, 14400 bps, 19200 bps, 28800 bps, 38400 bps, 57600 bps, 115200 bps

Serial data port

Signal format	RS422/ RS485
Number of ports	2
Connector	Molex KK 5pin
Supported bit rates	9600 bps, 14400 bps, 19200 bps, 28800 bps, 38400 bps, 57600 bps, 115200 bps

GPI inputs

Number of inputs	4
Connector	Molex KK 5pin
Signal type	Internal pull-up to 5V

GPI outputs

Number of outputs	4
Connector	Molex KK 5pin
Signal type	Open collector transistor.
Maximum voltage	30 V
Maximum current	100 mA

Physical and environmental

Operating temperature	0 to +40°C
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Ordering options

For ordering information please contact product@nevion.com



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