

## ETHERNET TECHNOLOGY

- Intelligent Ethernet I/O modules
- For industrial measurement, control and regulation tasks
- Suited for use very close to the test item (IP 65/IP 40)

**Egmont**

**ADDI-DATA®**  
SPIRIT OF EXCELLENCE

# ETHERNET TECHNOLOGY

## Intelligent Ethernet I/O modules: For use in rugged conditions

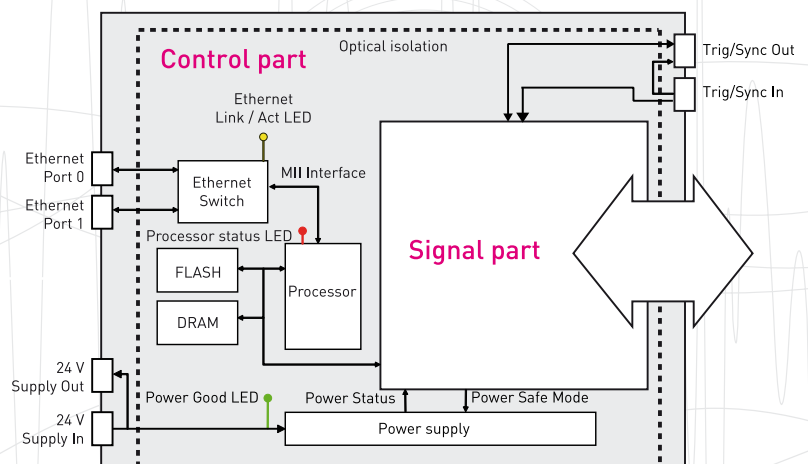
The intelligent Ethernet I/O modules MSX-Exxxx are especially suited for industrial measurement, control and regulation tasks very close to the test item. In order to cope with daily stresses and strains such as current peaks, dirt or extended temperatures, the modules are mounted in robust metal housings and comply with the degree of protection IP 65/IP 40. They can be used in the temperature range of - 40 °C / + 85 °C and are equipped with numerous protection circuitries. The modules can be freely cascaded and synchronised in the µs range.

Ethernet, synchronisation and supply signals can be put through from one module to the next. In this way, you can acquire and process distributed I/O signals close to test items. These features allow the I/O modules to be used for simple, distributed and also for complex applications, in which numerous devices have to interact with signals that are far away from each other.

### Fast and easy connection

The intelligent Ethernet I/O modules can be connected directly to a PLC such as the Siemens S7 through their integrated Ethernet switch. The PLC triggers the module measuring through a 24V digital output and receives the measured values again. This data is stored in a data block (DB) of the PLC.

**ARM<sup>®</sup>9**  
Technology



## SHORT INFO

- All module types can be cascaded and synchronised
- Degree of protection IP 65 or IP 40
- Optical isolation
- Compact systems for use very close to the test item
- LED status display for fast error diagnostics
- Direct use with MS Excel without programming skills
- Easy use e.g. with .NET and LabVIEW™ through web services (WSDL files)

## INTELLIGENCE INSIDE

- **ARM<sup>®</sup>9 technology: Intelligent system**
- **Linux Embedded: For application programming**
- **Web server: For easy module configuration and monitoring as well as CSV file export for example in MS Excel**
- **SOAP command server (Webservices, WSDL): For easy use e.g. with .NET and LabVIEW™**
- **Data server (TCP/IP or UDP socket): Standard communication modes**
- **Event server: For forwarding events**
- **NTP client: For module time setting**

### For PLC users:

- **UDP command server and UDP Modbus server: For optimal PLC connection**

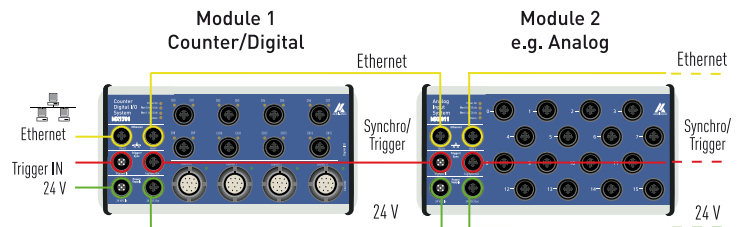
The modules are organized in two parts: the control part is common to all module types and allows a reliable and fast communication as well as signal processing when needed.

The signal part features the specific function of each module type: counter, digital I/O, analog I/O, length measurement, ...

## Modular functionalities Assemble your own system!

Each module is dedicated to a specific functionality and can be combined freely with the other module types.

The modules work together fast and reliably through synchronisation and cascading. Assemble them as you wish and obtain a system which suits your needs exactly!



### NEW!

#### Ethernet digital I/O module. MSX-E1516.

- 16 digital I/O, 24 V, which can be parameterized as inputs or outputs
- 2 lines, on each M12 connector
- LED status display for fast error diagnostics
- Outputs are set to "0" at Power-On
- Degree of protection IP65, 40 °C/+85 °C

#### Ethernet multifunction counter module.

##### MSX-E1701.

- 4 counter inputs, each with A, B, C (Index) and D (ref.) signals
- 16 digital I/O, 24 V
- LED status display for fast error diagnostics
- Degree of protection IP65, 40 °C/+85 °C



#### Ethernet analog input module. MSX-E3011.

- 16 analog inputs, differential, 16-bit, or 4 analog inputs, simultaneous
- Max. throughput 100 kHz
- Current or voltage inputs
- LED status display for fast error diagnostics
- Degree of protection IP65, 40 °C/+85 °C



#### Ethernet analog output module. MSX-E3511.

- 8 analog outputs, 16-bit
- Each output can be configured as a current or voltage output
- LED status display for fast error diagnostics
- Can be extended as a signal generator
- Degree of protection IP65, 40 °C/+85 °C

#### Ethernet modules for length measurement, 24-bit, LVDT, half-bridge. MSX-E3701 / MSX-E3700.

- Acquisition of 4, 8 or 16 inductive transducers
- For half-bridge or LVDT
- Precision for Tesa GT21 < 1 µm
- Degree of protection IP65/IP 40, 0–60 °C
- LED status display for fast error diagnostics

### NEW!

#### Ethernet modules for length measurement, 24-bit, LVDT, half-bridge, simultaneous. MSX-E3711.

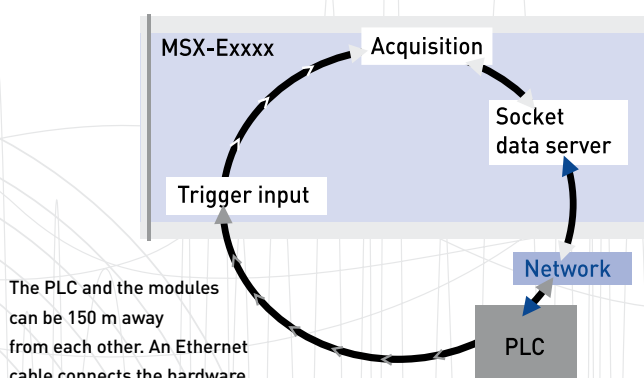
- Simultaneous acquisition of 8 inductive transducers
- For half-bridge or LVDT
- Precision for Tesa GT21 < 1 µm
- 1 incremental counter input (32-bit)
- 1 input for temperature measurement
- Degree of protection IP65, -40 °C/+85 °C
- LED status display for fast error diagnostics



# ETHERNET TECHNOLOGY

## PLC and Ethernet I/O modules – a dream team!

Some measurement and regulation tasks show the limits of the PLC. Increase now the performance of your PLC! Use the intelligent Ethernet I/O modules of ADDI-DATA as a complement to your PLC to realise numerous fast measurement and regulation tasks.



## THE FACTS

- Faster and more flexible process sequences
- For sensor acquisition or management of fast process sequences
- Many functions for measurement and regulation tasks
- Configuration without programming skills, over web server
- Connection over standard Ethernet
- Detailed description about the connection with PLC available

## SERVICE FAX + 48 (22) 654 0248

Please send me information about the following products:

- ☐ Intelligent Ethernet I/O modules
- ☐ Connecting the modules to a PLC

- ☐ Please send me the product catalogue 2008, digital on CD-ROM

Company

Name, title

Department

Street

Postal code / City

Country

- ☐ I wish to receive the information via e-mail at

- ☐ Please call me on the phone

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