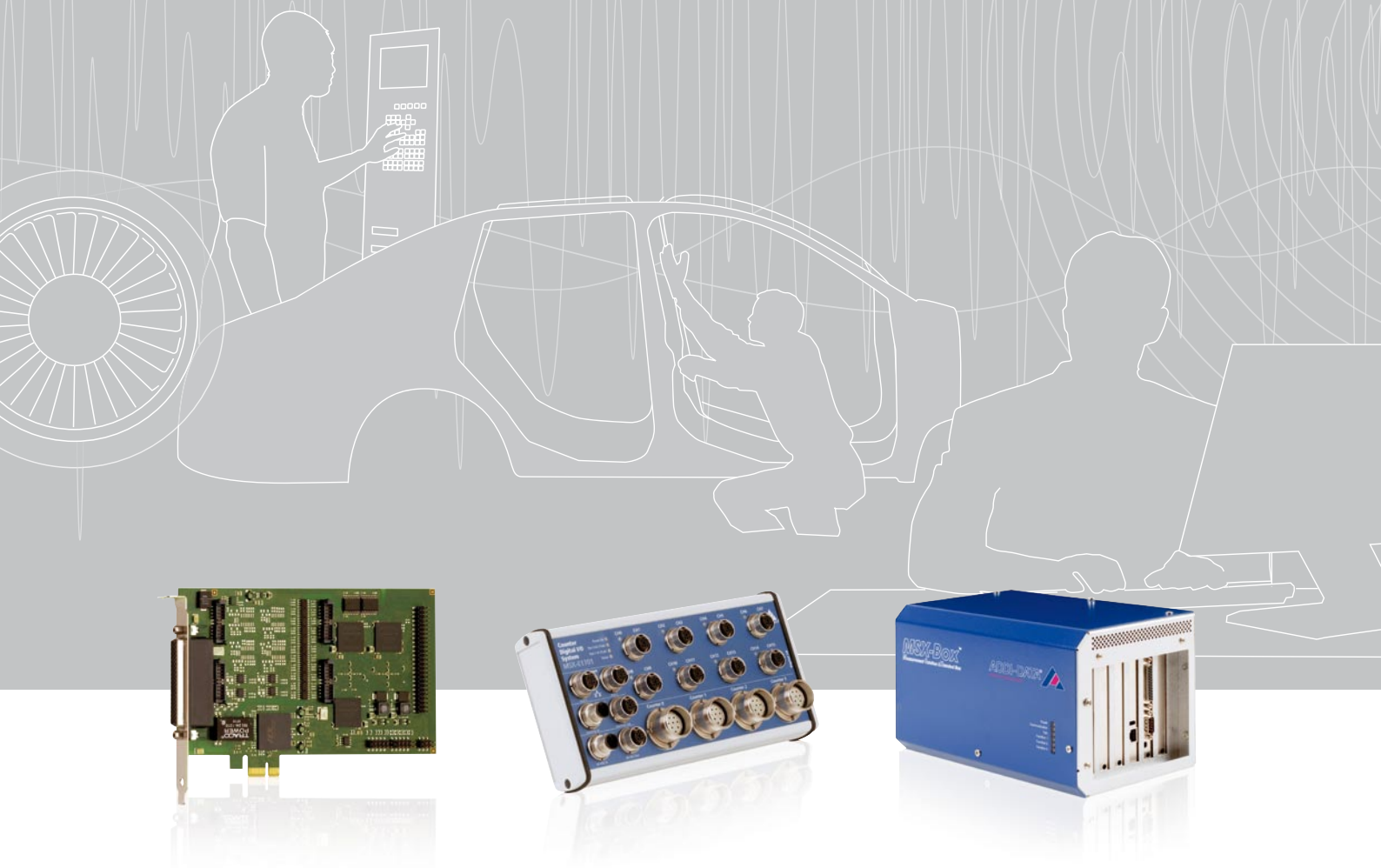


# Solutions for Industrial Measurement and Automation



## PRODUCT OVERVIEW

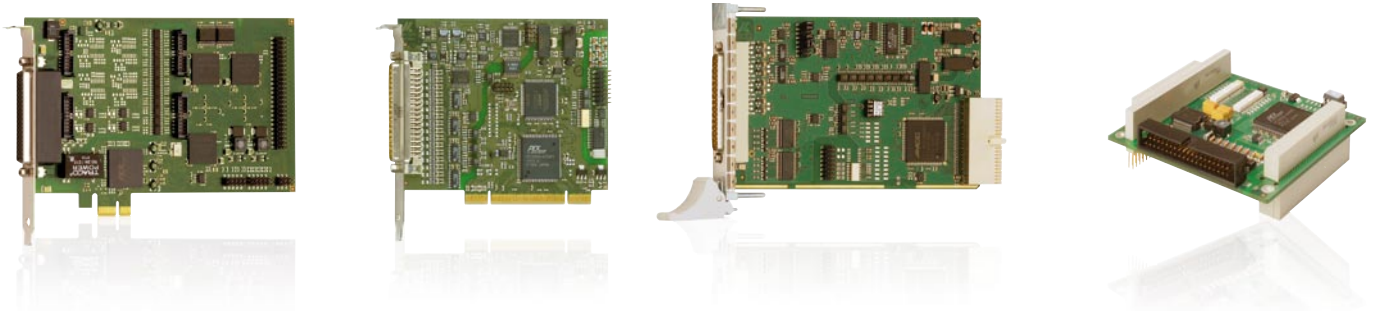
- Boards for PCI Express, PCI, CompactPCI, PC/104+
- Intelligent Ethernet I/O modules
- Open Source real-time PAC system

**Egmont**

**ADDI-DATA®**  
SPIRIT OF EXCELLENCE

# PC BOARDS

## Fast industrial measurement and control tasks with high data volume



Broad range of PC-based solutions for industrial measurement and control - from digital and analog I/O or multifunctional boards to communication boards through to multifunctional counters and motion control boards.

To guarantee smooth processes, ADDI-DATA offers interference-free solutions with comprehensive protection measures – for safe and reliable use of the products in your application.

Free drivers for standard operating systems along with programming samples.

## HIGH IMMUNITY

- Optical isolation from 500 V to 1000 V
- Separation between analog and digital signals
- Protection against short-circuits, overtemperature, overvoltage
- Filters for inputs and outputs
- Industry-standard SUB-D connectors

### Made for the industry

#### Digital boards, 24 V / 5 V

- Digital input
- Digital output
- Digital I/O
- Relay

#### Counter

- FPGA multifunction counter

#### Analog boards

- Analog input, 12- or 16-bit
- Analog output, 12- or 14-bit
- Temperature measurement
- Pressure measurement
- Length measurement (transducers)
- Noise and vibration measurement

#### Communication boards

- 1 to 8-port serial interfaces, RS232, RS422, RS485, 20 mA CL

#### Motion Control

- Intelligent boards
- For servo or stepper motors

#### Accessories

- Relay boards, terminal panels
- Connection cables

#### For different platforms

- PCI Express
- PCI
- CompactPCI
- PC/104+

### Free standard drivers

#### for the common operating systems\*

- Windows™ Vista (32-bit)/XP/2000/NT/98
- Programming examples for C, Visual Basic, Delphi, ...
- VIs and samples for LabVIEW™ / LabWindows/CVI™
- Drivers for DasyLab® / DIAdem®
- Real-time extensions: RTX®, RTAI, VxWorks® ...
- Linux
- Function management made easy with the universal software ADDIPACK

# ETHERNET TECHNOLOGY

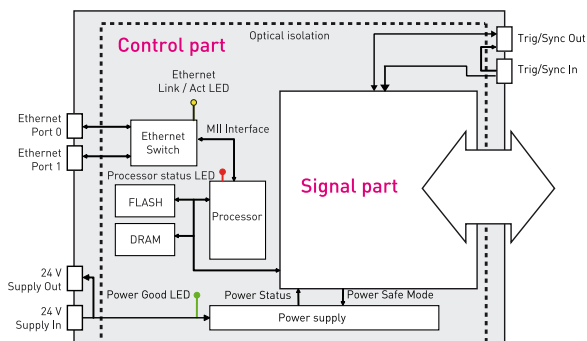


## Intelligent Ethernet I/O modules: For use in rugged conditions



The intelligent Ethernet I/O modules MSX-Exxxx are especially suited for 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  $\mu$ s range.



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, ...

### Available functionalities

- Digital I/O module: MSX-E1516.
- Multifunction counter module: MSX-E1701.
- Analog input module: MSX-E3011.
- Analog output module: MSX-E3511.
- Modules for length measurement, 24-bit, LVDT, half-bridge: MSX-E3701/MSX-E3700.
- Modules for length measurement, 24-bit, LVDT, half-bridge, simultaneous: MSX-E3711

## INTELLIGENCE INSIDE

- **ARM®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

# PAC SYSTEM

## Distributed data acquisition and control in real-time



The MSX-Box is an open and transparent Programmable Automation Controller system. It has been developed especially for industrial real-time measurement and control applications.

- **Save time:** Real-time operating system Linux with RTAI extension - no need to take care of updates.
- **Optimize your system:** Free access to the software down to the kernel source code
- From the prototype to serial equipment without software license costs
- Real-time development tools without additional costs
- **Secure your investments:** the ADDI-DATA supply philosophy ensures long-term product availability
- Based on reliable standard technologies like PCI backplane
- Full machine time only for your application

Get more information at: [www.msx-box.com](http://www.msx-box.com)

### OPEN SOURCE INSIDE

- Based on the Debian distribution
- Integrated Eclipse development environment
- Debugging via GDB / KGDB (user and kernel mode)
- Compiling with Mipsel-linux-gcc 2.95 and 3.3 possible
- Calculation und visualisation package Scilab © INRIA-ENPC

### SERVICE FAX + 48 (22) 654 0248

Please send me information about the following products:

- ☐ Isolated PC boards
- ☐ Intelligent Ethernet I/O modules
- ☐ Real-time PAC-system MSX-Box

- ☐ 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

# Egmont

Egmont Instruments • u. Chłodna 39 pawilon 11  
PL-00-867 WARSZAWA  
Phone +48 (22) 850 6205 • Fax +48 (22) 654 0248  
[egmont@egmont.com.pl](mailto:egmont@egmont.com.pl) • [www.egmont.com.pl](http://www.egmont.com.pl)

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