



15 Feb. 06  
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The BradCommunication™ PROFINET IO Proxy provides connectivity between a PROFINET IO controller and field devices used on other industrial networks.

## applicom® PROFINET IO Proxy

### Features

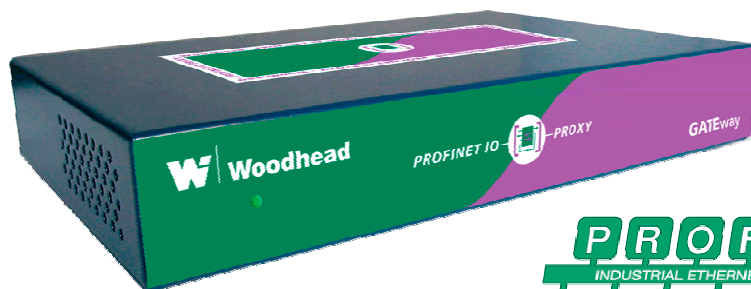
- PROFINET IO Protocol IEC 61158 and IEC 61784
- Supports up to 14 different protocols for the IO device
- Real time data exchange through internal data base (32Kbits/32Kwords)
- No programming required, just configuration
- Powerful graphical tools for network and device diagnostic
- Desktop or DIN Rail mounting

### Benefits

- Investment protection through integration of existing Fieldbus systems
- Scalable performance because of one network for all solutions
- Cost reduction through less engineering and maintenance time
- Simple trouble shooting through Web Integration

### Typical Applications

- Machine Tool Industry  
- simple integration of serial devices
- Automotive Industry  
- connect EtherNet/IP, Modbus devices with PROFINET IO



### PROFINET IO Functionality

Ethernet builds an excellent platform for homogeneous vertical communication from the management level down to the field level. In order to fulfill industrial requirements like vendor-independent engineering, simple network administration or higher machine availability, PROFINET was defined to become an industrial IEC standard. Based on Ethernet TCP/IP, a PROFINET network integrates Distributed Automation (PROFINET CBA), Distributed IO and Motion Control (PROFINET IO) in one single network.

The PROFINET CBA channel is used to transfer non-real-time data in parallel to the real-time communication used for Motion Control and High Performance IO. If the typical cycle time in a CBA communication is about 100 ms the real-time channel for IO comes down to 1 ms.

By using Proxy technology, the integration of other industrial networks can easily be realized. The Proxy is a representative for the Fieldbus subsystem on the Ethernet. Therefore, devices placed on Fieldbus are mapped transparently into PROFINET Controller.

### Product Description

applicom® PROFINET IO Proxy provides the first real-time connection between a PROFINET IO network and other devices over Ethernet, Profibus or Serial connection. The data coming from the different networks will be exchanged with PROFINET IO controller devices via the applicom® database.

The networks listed below can be connected to PROFINET IO:

#### Ethernet TCP/IP (Client/Server)

- Siemens Industrial Ethernet (S5/S7/TI)
- Altus – Alnet II
- Allen Bradley EtherNet/IP (PCCC)
- Schneider UNI-TE
- Open Modbus
- Mitsubishi Melsec A & Q
- Omron FINS
- GE Fanuc SRTP

#### Serial

- Modbus RTU (Master/Slave) / Modbus ASCII (Master/Slave)

#### Profibus

- PROFIBUS-DPV0 Master Class1 & Class2
- PROFIBUS DPV0 Slave
- PROFIBUS S7/MPI Client (S7-300/400)
- PROFIBUS S5 FDL Client

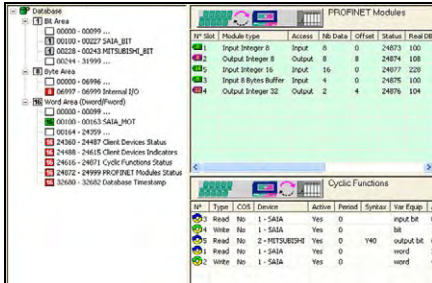
applicom® software package is delivered to run on Windows 32 environments (2000 and XP) and includes a set of powerful tools used for configuration and network diagnostics. The integration in PROFINET IO engineering tool (i.e. SIEMENS S7/Step7) will be possible with the generic GSD file in XML format▲

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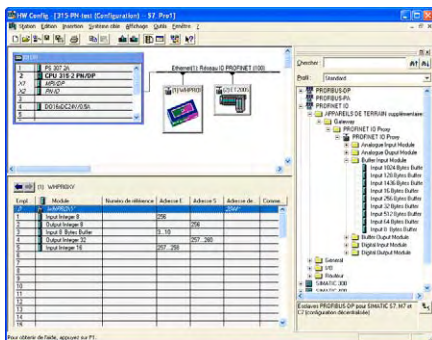
# PROFINET IO Proxy



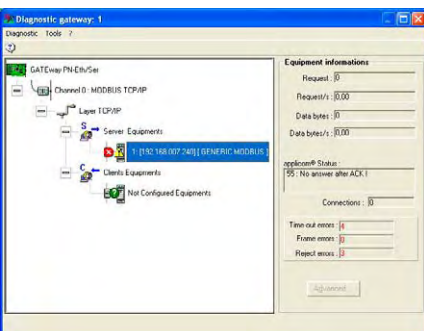
## Software Tools



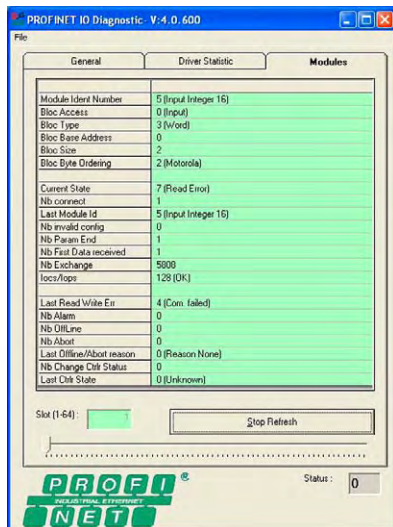
PROFINET IO Configuration Console



STEP 7 Tool Configuration



Integrated Network and Device Diagnostic



PROFINET IO Diagnostic

## Technical Information

### Physical characteristics

<b>Processor 32bit</b>	ST Micro STPC Vega (equivalent to Pentium 200 MHz within co-processor)
<b>RAM</b>	32 Mbytes
<b>Flash Disk</b>	32 Mbytes
<b>Operating Voltage</b>	+24V DC (+/- 20%) provided by external power supply (not included) Connector: Plug screw terminal 2 way
<b>Consumption</b>	12W
<b>Ingress Protection</b>	IP20, IP30 if RJ11 and RJ45 connected
<b>Indicator (LED)</b>	<b>Front panel:</b> 1 Mono-Color Yellow: Power on <b>Rear panel:</b> 2 Mono-color: Ethernet 10/100, Tx/Rx and Link
<b>Digital I/O</b>	2 outputs 6 inputs
<b>Weight</b>	950g
<b>Temperature</b>	<b>Operating:</b> 0°C to +50°C (+32°F to 122°F) <b>Non-operating:</b> -55°C to +85°C (+14°F to 185°F)
<b>Humidity (non-condensing)</b>	90%
<b>Ventilation</b>	Natural. Minimum gap of 2 cm
<b>MTBF</b>	100 000 Hours
<b>Dimensions (L x W x H) (without connector and feet)</b>	220 x 140 x 35 mm (8.66 x 5.51 x 1.38 inches) - (1/2 19 inches 1U)
<b>Box</b>	Metal box Fixing: Set of 2 fixing clamps for DIN rail 35mm mountable
<b>EMC compliance</b>	EMI EN55022 Class B, EN55024
<b>Communication Interfaces</b>	
<b>Serial port</b>	1 x RS485/422 (2-wire or 4-wire) D-Sub Connector: 9-pin, Male Speed: 2400 bps up to 115.200 kbps
<b>Ethernet port</b>	10/100BaseT (RJ45), shielded Ethernet II
<b>Profibus port</b>	D-Sub Connector: 9-pin, Female, Galvanic isolation 500V Speed: 9600 bps up to 12 Mbps 2 Leds: BF: Bus Fault ST: Communication status

## Ordering Information

Part Number	Description
APP-PNT-GTW-P	PROFINET IO Proxy for Ethernet, Serial and Profibus

### The package includes:

- ✓ Documentation on CD
- ✓ Software for Configuration & Diagnostic under Win32 environments
- ✓ Pre-configured PROFINET IO Proxy Hardware

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