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

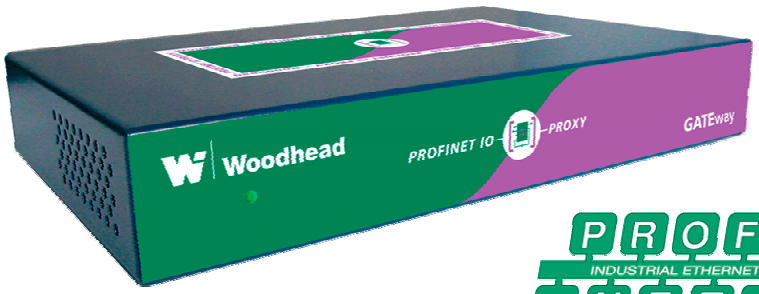
- **PROFINET IO Protocol IEC 61158 and IEC 61784**
- **Supports up to 14 different protocols for the IO device**
- **Real time data exchange through internal data base (32Kbits/ 32Kwords)**
- **No programming required, just configuration**
- **Powerful graphical tools for network and device diagnostic**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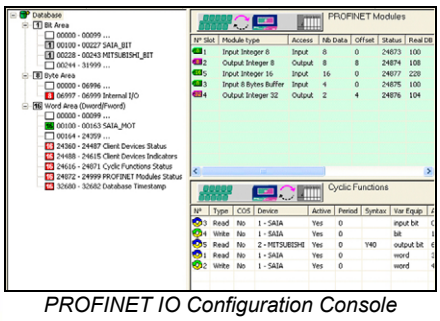
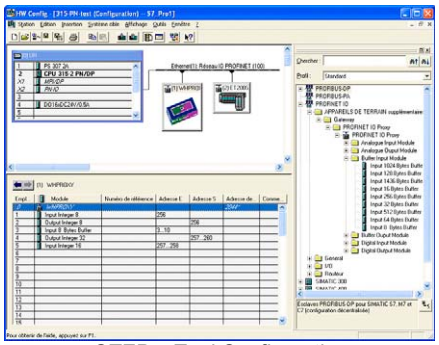
PROFINET IO Proxy

Gateway

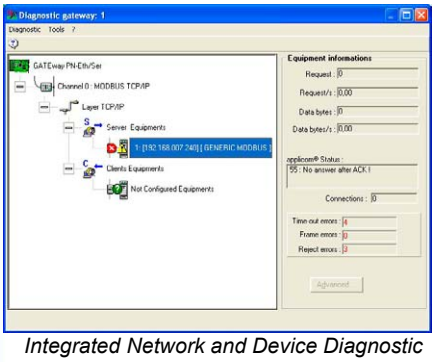
Software Tools



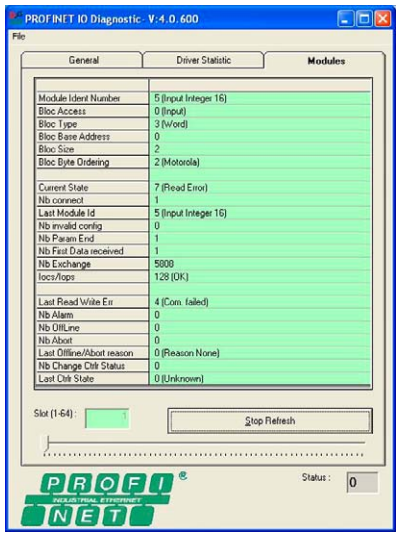
PROFINET IO Configuration Console



STEP 7 Tool Configuration



Integrated Network and Device Diagnostic



PROFINET IO Diagnostic

Technical Information

Physical characteristics	
Processor 32bit	ST Micro STPC Vega (equivalent to Pentium 200 MHz within co-processor)
RAM	32 Mbytes
Flash Disk	32 Mbytes
Operating Voltage	+24V DC (+/- 20%) provided by external power supply (not included) Connector: Plug screw terminal 2 way
Consumption	12W
Ingress Protection	IP20, IP30 if RJ11 and RJ45 connected
Indicator (LED)	**Front panel:** 1 Mono-Color Yellow: Power on **Rear panel:** 2 Mono-color: Ethernet 10/100, Tx/Rx and Link
Digital I/O	2 outputs 6 inputs
Weight	950g
Temperature	**Operating:** 0°C to +50°C (+32°F to 122°F) **Non-operating**: -55°C to +85°C (+14°F to 185°F)
Humidity (non-condensing)	90%
Ventilation	Natural. Minimum gap of 2 cm
MTBF	100 000 Hours
Dimensions (L x W x H) (without connector and foots)	220 x 140 x 35 mm (8.66 x 5.51 x 1.38 inches) - (1/2 19 inches 1U)
Box	Metal box Fixing: Set of 2 fixing clamps for DIN rail 35mm mountable
EMC compliance	EMI EN55022 Class B, EN55024
Communication Interfaces	
Serial port	1 x RS485/422 (2-wire or 4-wire) D-Sub Connector: 9-pin, Male Speed: 2400 bps up to 115.200 kbps
Ethernet port	10/100BaseT (RJ45), shielded IEEE 802.3
Profibus port	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

Contact us: www.woodhead.com

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