



14 Dec. 04

Woodhead GATEway is configurable stand-alone smart Ethernet TCP/IP, Profibus and Serial gateway that allows based controllers to communicate and to interoperate simultaneously with each other.

Features

- Manages simultaneously up to:
 - ✓ 10 Industrial Ethernet TCP/IP protocols (running both Client and Server modes)
 - ✓ 4 Profibus protocols Client and Master/Slave modes
 - ✓ 6 Serial protocols Master and Slave
- No programming, just configuring. Doesn't require protocol knowledge
- Real-Time data exchange through internal data base (**32 Kbits + 32 Kwords**)
- Typical architectures: Data translator, Data concentrator, Industrial firewall
- Supports unsolicited data exchange from Client devices
- Up to 128 PLCs on Ethernet TCP and 126 Profibus devices
- Powerful graphical tools to diagnose Network, Devices and Process Data
- Desktop or DIN Rail mounting
- Automatic detection of Profibus-DP devices
- Upload/Download configuration and diagnostic through Remote TCP/IP

Typical applications

- Industrial Networking Solutions
 - Open SCADA connectivity
 - Integration of different networks/manufacturers
 - Integration of legacy devices into new Ethernet or Profibus architectures
- Machine Tool Industry
 - Simple adaptation of Serial device
 - Easy access to different PLC systems by using just one hardware platform
- Building Automation
 - Multiple gateways for Alarm Center application
 - Integration of legacy devices
- ...

GATEway

Ethernet ↔ Ethernet / Serial
Profibus ↔ Ethernet / Serial

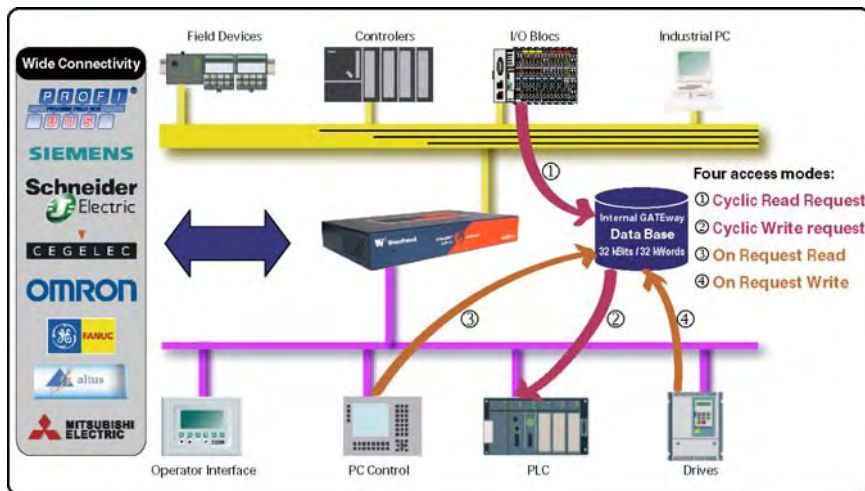


Woodhead GATEway is more than a standard tunnelling gateway! It is the first hardware platform that allows **simultaneous communication** between industrial devices (PLC, SCADA etc.) using **up to 20 different Ethernet, Profibus and Serial protocols**.

Open on the major industrial manufacturer vendors, the Woodhead GATEway supports multi-messaging that enables it to communicate and interoperate as the following modes simultaneously:

- ✓ **Multi Ethernet TCP/IP ↔ Multi Ethernet TCP/IP** (same and different protocols)
 - for example: Siemens S7 TCP ↔ Schneider Uni-TE TCP Premium
 - Omron FINS TCP ↔ Modbus TCP
 - Siemens S5 TCP ↔ GE SRTCP
- ✓ **Multi Profibus ↔ Multi Profibus** (same and different protocols)
 - for example: Profibus Siemens S7 ↔ Profibus Siemens S5
 - Profibus DPV0 Master ↔ Profibus Siemens S7
 - Profibus DPV0 Slave ↔ Profibus DPV0 Slave
- ✓ **Multi Profibus ↔ Multi Ethernet TCP/IP** (same and different protocols)
 - for example: Profibus Siemens S7 ↔ Schneider Uni-TE TCP Premium
 - Profibus DPV0 Master ↔ Modbus TCP
 - Profibus Siemens S5 ↔ GE SRTCP
- ✓ **Multi Profibus ↔ Mono Serial networks**
 - for example: Siemens S5 TCP ↔ Serial Modbus Slave ASCII
 - Siemens S7 TCP ↔ Serial GE SNP-X Master
- ✓ **Multi Ethernet TCP/IP ↔ Mono Serial networks**
 - for example: Siemens S5 TCP ↔ Serial Modbus Slave ASCII
 - Siemens S7 TCP ↔ Serial GE SNP-X Master
- ✓ **Serial ↔ Serial network** (same protocol)
 - for example: Serial Modbus Slave ↔ Serial Modbus Slave

The Woodhead GATEway embeds a powerful processor running a real-time OS kernel. Through its on-board Database (**32 Kbits / 32 Kwords**), the GATEway performs all communication tasks to exchange data between equipment by running automatic Read/Write cyclic functions and allows the receiving of unsolicited Read/Write requests. The R/W cyclic functions can also be activated by the use of the writing associated flags.



The Woodhead GATEway includes a software package running under Windows XP or 2000 environments enabling the GATEway to be setup using a remote TCP connection. The package includes a set of powerful tools to perform features such as:

- ✓ Ethernet, Profibus and Serial protocols configuration
- ✓ Cyclic functions setup and monitoring
- ✓ Graphical Network Diagnostic tools for Ethernet and Profibus
- ✓ Process data access utilities
- ✓ Help/Download of GATEway software and documentation



Multi-Networks GATEway



Protocols supported

Ethernet TCP/IP – Client and Server modes

- **Altus** - Alnet II (webgate & AL2000 series)
- **Alstom** - SRTP (Alspa C80-35 & C80-75)
- **GE Fanuc** - SRTP (GE90-30 & 90-70)
- **Mitsubishi** - Melsec (AnA, AnU, AnS, QnA, QnAS)
- **Omron** - Fins (Sysmac C, CV and CS1)
- **Schneider** - Open Modbus (TCP and UDP)
- **Schneider** - Uni-TE (Premium, Micro)
- **Siemens** - Industrial Ethernet (S7-200/300/400, S5, TI-505)

Serial

- **GE Fanuc** - SNP-X Master (GE90-30/70)
- **Schneider** - Modbus Master (ASCII & RTU)
- **Schneider** - Modbus Slave (ASCII & RTU)
- **Schneider** - Uni-Telway Slave Client/Server (TSX/PMX)
- **Siemens** - AS511 Master (S5 console outlet)
- **Siemens** - TI-Dir Master (TI-505 console outlet)

Profibus

- **Siemens** - S7/MPI Client
- **Siemens** - S5 Client
- **EN50170** - DPV0 Master/Slave Class 1 & 2

- (1) Up to 128 PLCs on Ethernet TCP
 (2) Up to 126 Profibus devices

Hardware Specifications

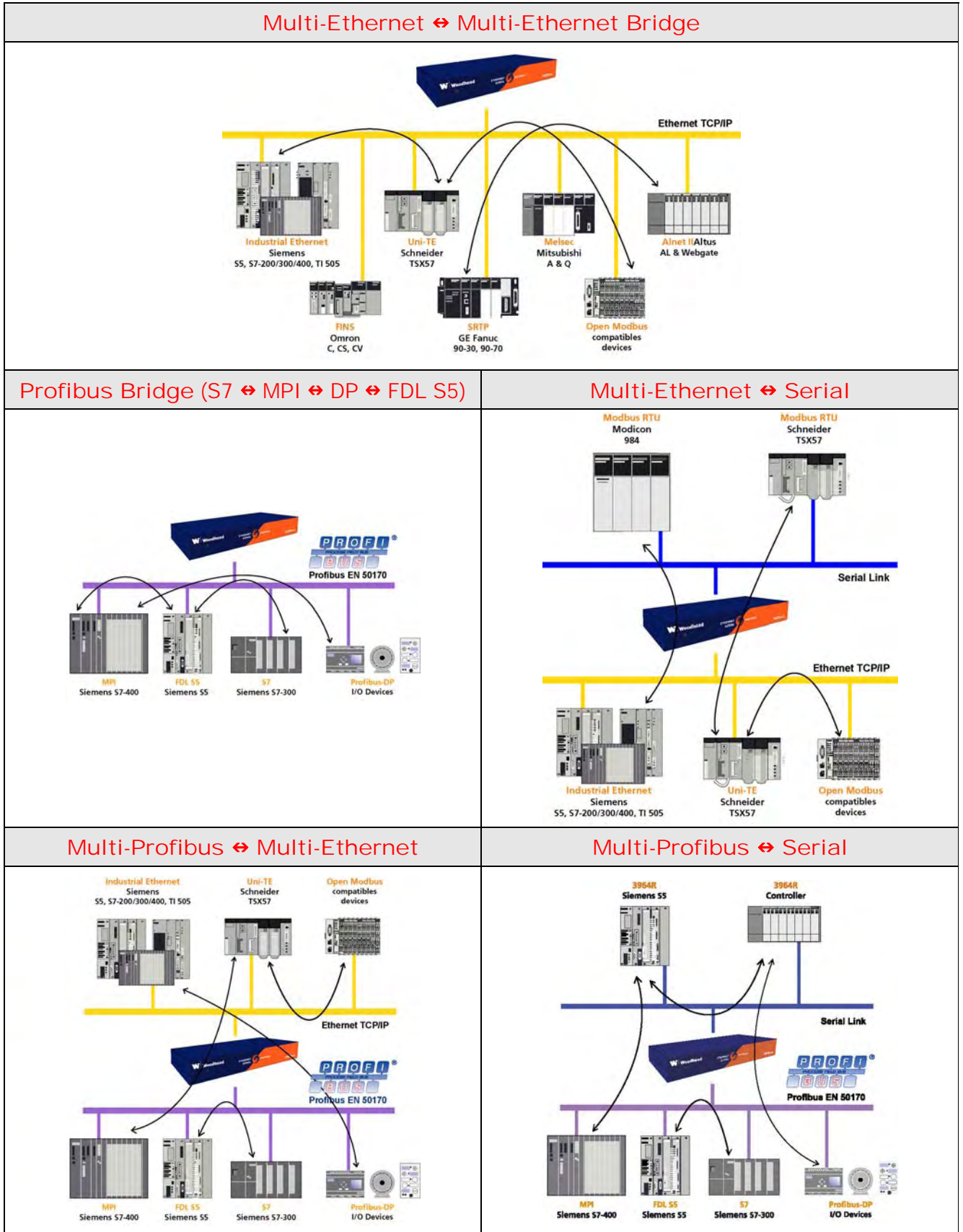
Physical characteristics	
Processor 32bit	ST Micro STPC Vega (equivalent to Pentium 200 Mhz within co-processor)
RAM	32 Mbytes
Flash Disk	32 Mbytes
Operating Voltage	+24V DC (+/- 20%) provided by external power supply (not included) Connector: Plug screw terminal 2 way
Consumption	12W
Ingress Protection	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
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 wall mountable 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

Multi-Networks GATEway



Working modes supported

Yes, You can do it all together !..



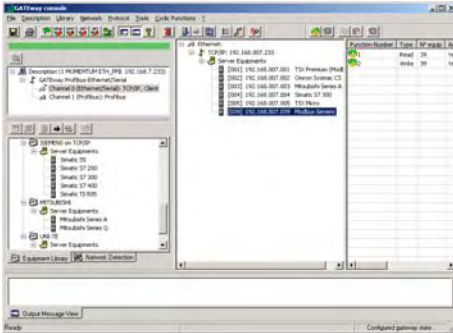
Gateway

Multi-Networks GATEway

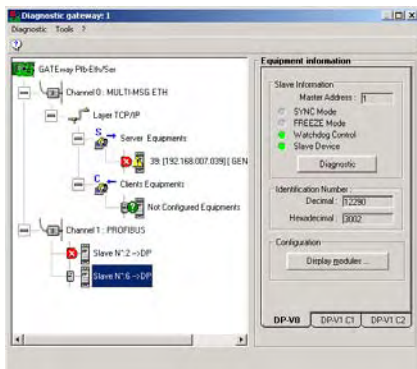


Software tools

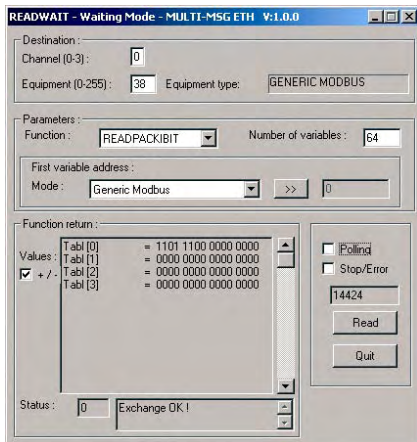
The core of applicom® GATEway lies in effective software tools enabling fast integration of industrial communication into your applications.



- GATEway setup Console -



- Network Diagnostic Tool -



- Read Data Access utility -

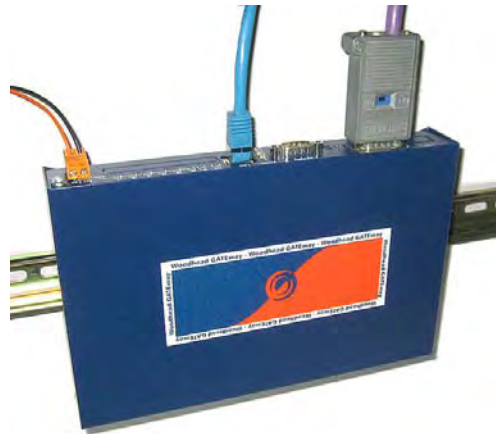
Product Pictures



- GATEway Ethernet ↔ Serial back view -



- GATEway Profibus ↔ Ethernet/Serial back view -



- Rail DIN mount view -

Ordering Information

Part Number	Description
APP-ESR-GTW	applicom® GATEway Ethernet ↔ Serial
APP-ESP-GTW	applicom® GATEway Profibus ↔ Ethernet / Serial

Related products

Part Number	Description
DRL-2ASI-PFB	Gateway AS-I / Profibus, 2 Channels, Display, IP20
DRL-2ASI-CAN	Gateway AS-I / CANopen, 2 Channels, Display, IP20
DRL-2ASI-DV	Gateway AS-I / DeviceNet, 2 Channels, Display, IP20
DRL-2ASI-SER	Gateway AS-I / Serial Modbus, 2 Channels, Display, IP20
DRL-2ASI-ETH	Gateway AS-I / Ethernet Modbus TCP, 2 Channels, Display, IP20
APP-GTW-S4D	applicom® GT4010 Gateway, 4xRS485/422 Serial Channels, Modbus & Uni-Telway, desktop version
APP-GTW-S4R	applicom® GT4010 Gateway, 4xRS485/422 Serial Channels, Modbus & Uni-Telway, 19" 1U rackable version



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