CONFIGURABLE GATEWAYS

Protocol Converters
with MORE . . .

Smart Gateway

Hardbook Gateway

FLEXIBILITY

- Up to 16 protocols per Gateway
  - Supports multiple serial and Ethernet protocols
    - All supported protocols always included - no need to order/stock different part numbers
    - Select mix of master & slave protocols
  - Industrial bus networks implemented via hardware add-on, base unit remains unchanged
- Via Toolkit, users can add custom protocols

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PORTS, PORTS, PORTS!

- Minimum (2) Ethernet interfaces (MAC ID's)
  - Routing functions included
  - Wireless and fiber options
- Minimum (4) serial ports
- Up to (8) industrial network interfaces *(eg: Profibus, DeviceNet, etc.)*

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DATA / THROUGHPUT

➢ No data limits

- 100 Million 16-bit data words per Gateway

➢ Fastest Gateways on the market

- Highly optimized drivers

  - Initially developed as PLC I/O drivers and/or PLC peer-to-peer communications

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INTELLIGENCE

- Supports user logic for data manipulation
    - Scaling, totaling, etc. via ladder logic
    - Data logging to local flash / or to network drives
    - Email/texting functions can send alarms, data/data files as attachments
- Great solution for data concentrator applications

SECURITY

➢ Firewall/VPN *(firmware option)*

- Protection of Gateway and connected devices from unauthorized access on any Ethernet or modem connection

- Remote access to Gateway data and configuration

DIAGNOSTICS

➢ All protocols provide detailed error reporting

➢ User logic can automatically detect errors

- Report errors to attached SCADA/HMI

- Report errors via email/text messages

- Send peer-to-peer message to connected devices *(if supported by device/protocol)*

- Via connected I/O *(optional)* issue alarm, modify machine/process behavior, etc.

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CONTROL

➢ Connected I/O and Devices can be controlled by Gateway via ladder logic

- SoftPLC Tealware local I/O

- Serial *(eg: Modbus)*

- Ethernet *(eg: ModbusTCP)*

- Industrial bus *(eg: Profibus, DeviceNet)*

DATA ACCESS

- Any HMI/SCADA/DCS system can access Gateway data
  - Ethernet or serial connections via standard PLC drivers
    - A-B Ethernet, A-B DF1
    - ModbusTCP, Modbus serial
- Toolkit enables users to write programs to read/write data over ethernet
  - Gateway can interface directly to databases *(eg: SQL)*

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FEATURES

➢ Easy to configure

- Configuration via Ethernet

- No programming required

- XML or text configuration files to map data from PLC/network address to internal Gateway address

➢ Free industrial bus network configuration / diagnostic software included *(eg: Profibus, DeviceNet)*

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INDUSTRIAL

➤ Designed for harsh environments

- Fanless
- Industrial operating temperature range

Smart Gateways	Hardbook Gateways
DIN rail mount	Panel mount
12-48VDC or PoE Requires only 2W *(5W w/ ind'l buses)*	24VDC

SPECIFICATIONS

Smart Gateways	Hardbook Gateways
4 port 10/100 Ethernet switch *(Fiber option)*	(2) 10/100 Ethernet interfaces *(GB or Fiber Ethernet option)*
(5) RS-232 ports + (1) factory configured serial port *(eg: RS-485/A-B RIO/modem)*	(4) RS-232/485 ports + (4) USB ports
Up to (3) bus network interfaces	Up to (8) bus network interfaces
146.1 x 152.4 x 38.1 mm *(w/o bus network interfaces)*	195 x 150 x 80 mm *(w/o bus network interfaces)*

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Thanks for your time!

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