DeviceMaster® PNIO-2202

Part Number: 99534-0

KEY FEATURES AND BENEFITS

- Provide PLC connectivity – to standard serial devices with protocol support for PROFINET IO and TCP/IP
- Supported PLCs: Siemens SIMATIC S7-300, S7-400, S7-1200, S7-1500, and ET 200 CPUs that support the extended PROFINET diagnostics.
- Wide (- 37° to 74°C) Industrial Temperature Range
- Variable power input – eliminates need for power converters
- PortVision® DX monitoring and management software
- RoHS2 compliant under CE
- Security Features – SSL & SSH management, SSL serial data stream encryption

PRODUCT DESCRIPTION

At Comtrol, we believe gateways should be intelligent, robust, and easy to use.

The DeviceMaster PNIO-2202 provides innovative PROFINET IO connectivity to a wide variety of devices. It can enable you to quickly connect PLCs, SCADA, OPC Servers and applications to devices such as barcode scanners, RFID readers, weigh scales, vision systems, printers, encoders, HVAC and sensors.

With its simplified web-based configuration pages and informative diagnostic information, the DeviceMaster PNIO-2202 provides the functionality required to make your networks and systems most efficient.

Your automation, our passion.

DEVICEMASTER PNIO-2202 SPECIFICATIONS

HARDWARE
Bus Interface Specification
10/100 BASE-T
Memory

SDRAM	8 MB
Flash	4 MB

Enclosure
UL94-V0 Plastic
Installation Method
DIN Rail (35mm)
LED Indicators
Ethernet Activity, Link and Status
Enclosure Dimensions
4.37" x 3.9" x .89"
Product Weight
4.6 oz

ELECTRICAL SPECIFICATIONS
DC Input Voltage
5-30 V
Current Consumption   +24 VDC
60 mA
Power Consumption (max)
1.5 W
ESD Surge Protection (min)
Minimum 25KV for all serial lines. All ethernet components are rated to 1.5KV magnetic surge protection.

ENVIRONMENTAL SPECIFICATIONS
Operating Temperature
-37 to 74°C
Storage Temperature
-40 to 85°C
Operating Humidity (non-condensing)
5% to 95%
Altitude
0 to 10000 Feet
Heat Output
5.0 BTU/Hr
Mean time between failures
58.57 Years

SERIAL COMMUNICATIONS
Connector Type
Screw Terminal Blocks
Number of Ports
2
Interface Standard
RS-232, RS-422, RS-485, RS-485 2-Wire
RS-485 4-Wire Master, RS-485 4-Wire Slave
Baud Rates
300 to 230.4Kbps
Transmit Buffer
256 Bytes
Recieve Buffer
1024 Bytes
Data Bits
5, 6, 7 or 8
Parity
None, Even, Odd, Mark, Space
Stop Bits *
1, 1.5 (with 5 data bits) or 2
Flow Control
None, RTS/CTS, Xon/Xoff, Half-Duplex

* Stop bit 1.5: Supported only when used with 5 data bits

ETHERNET SPECIFICATIONS
Network Protocols
ARP, BOOTP, DHCP, HTTP, ICMP, Ping, RARP, RFC 1006, (ISO over TCP), RFC 2217, SNMP (MIB-II), TCP/IP, Telnet, TFTP, and UDP socket services
Connector Type
RJ45F Auto MDI/MDI-X
Number of Ports
1

PROFINET IO FEATURES
Supported PLCs
Including but not limited to:
Siemens SIMATIC S7-300, S7-400, S7-1200, S7-1500, and ET 200 CPUs that support the extended PROFINET diagnostics (listed here)
Key Features
· Connectivity – connect serial and Ethernet TCP/IP devices to PROFINET IO controllers and TCP/IP applications
· 8ms to 512ms IO cycle update time – supports high-speed devices and also ensures PLC can process each received data packet
· Intelligent packet identification – start and end of transmission character detection/removing/appending
· Received packet size control – truncate, drop, or save oversized packets as record data
· Large received packet support – up to 1518 bytes serial and 2048 bytes Ethernet TCP/IP
· Shared Device function – different ports can be shared between two PLCs
Diagnostics
Yes
GSDML file
Yes

EXPORT INFORMATION
Packaged Shipping Weight
0.91 lbs
Package Dimensions
9.25" x 2.5" x 7.25"
UPC Code
7-56727-99534-0
Country of Origin
USA
ECCN
5A992
Schedule B Number
8471.80.1000

REGULATORY STANDARDS
Emission
CANADIAN EMC REQUIREMENTS
ICES-003
European Standard EN55022
FCC PART 15 SUBPART B
CLASS A LIMIT
AS/NZS CISPR 22
Immunity
European Standard EN55024
IEC 1000-4-2/EN61000-4-2: ESD
IEC 1000-4-3/EN61000-4-3: RF
IEC 1000-4-4/EN61000-4-4: Fast Transient
IEC 1000-4-5/EN61000-4-5: Surge
IEC 1000-4-6/EN61000-4-6: Conducted Disturbance
IEC 1000-4-8/EN61000-4-8: Magnetic Field
IEC 1000-4-11/EN61000-4-11: Dips and Voltage Variations
Safety
IEC 60950/EN60950
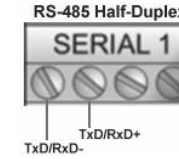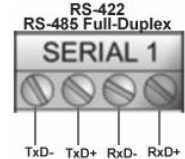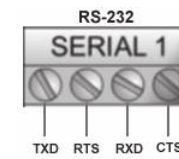CSA C22.2 No. 60950/UL60950 Third Edition
NEMA TS2 Compliant

FEATURES
SNMP Support
RoHS2 Compliant

REGULATORY APPROVAL MARKS
CE FC cULus

PIN ASSIGNMENTS

RS-232
SERIAL 1
TXD RTS RXD CTS

RS-422 RS-485 Full-Duplex
SERIAL 1
TxD- TxD+ RxD- RxD+

RS-485 Half-Duplex
SERIAL 1
TxD/RxD- TxD/RxD+

COMTROL
Pepperl+Fuchs