



PDS-742/PDS-742D

Programmable Serial-to-Ethernet Device Servers

Features

- Networkable serial devices
- "Virtual COM" extend COM ports
- Supports Virtual COM on Windows NT 4.0, 2000/XP/2003 and Vista32
- Powerful programmable device server
- Watchdog timer suitable for use in harsh environments
- 10/100 Base-Tx, RJ-45 port (Auto-negotiating, auto MDI/MDI-X, LED indicator)
- Power reverse polarity protection
- Serial port +/-4 kV ESD protection circuit
- Self-tuner ASIC controller on RS-485 port
- Enables download of programs from PC
- 5-digit display (only for version with display)
- RoHS compliant with No Halogen
- Built-in MiniOS7 of ICP DAS
- ODM Wanted



Introduction

PDS-700 series is a series of Programmable Serial-to-Ethernet Device Servers designed to meet the most common requirements of Internet/Ethernet applications. Besides the advantage of easy to use on remote control your serial devices through Ethernet network, the PDS-700 comes with a powerful and reliable Xserver programming structure for you to design your robust Ethernet applications in one day.

PDS-700 series is designed for linking RS-232/485/422 devices to Ethernet network. With the help of VxComm utility, the built-in COM port of PDS-700 can be virtualized to standard COM port of host-PC. By virtue of its independent operating system, protocol independence, small size and flexibility, Device servers are able to meet the demand of virtually any network-enable application. Most devices don't have network ports. Our Programmable Device Servers allow those devices to become connected to the network.

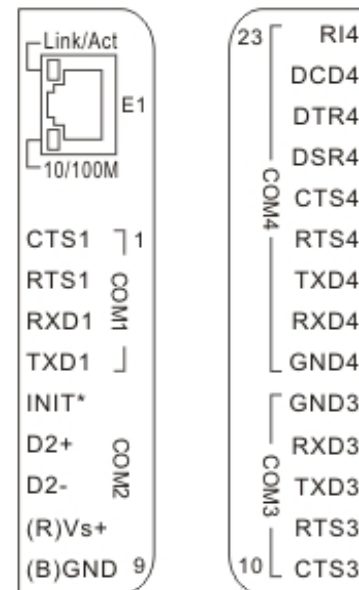
Applications

- Factory Automation
- Building Automation
- Home Automation

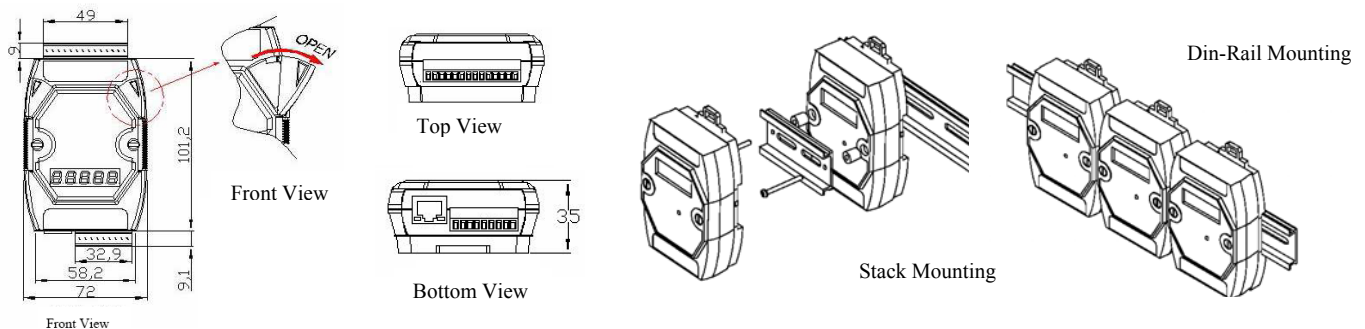
Specifications

CPU	
CPU	80186-80 MHz or compatible
SRAM	512 K bytes
Flash Memory	Flash ROM: 512 K Bytes ; Erase unit is one sector (64 K bytes) ; 100,000 erase/write cycles
EEPROM	16 K byte; Data retention: 40 years; 1,000,000 erase/write cycles.
Built-in Watchdog Timer	Yes
Communication Interface	
COM1	RS-232(TXD, RXD, RTS, CTS, GND); None-isolation
COM2	RS-485(D2+, D2-); None-isolation Self-tuner ASIC controller on RS-485 port
COM3	RS-232(TXD, RXD, RTS, CTS, GND); None-isolation
COM4	RS-232(TXD, RXD, RTS, CTS, GND, DSR, DTR, DCD, RI); None-isolation
Ethernet Port	10/100 Base-Tx, RJ-45 port (Auto-negotiating, auto MDI/MDI-X, LED indicator)
COM Port Formats	
Data Bit	7, 8: for COM1, COM2 ; 5, 6, 7, 8: for COM3 ~ COM4
Parity	None, Even, Odd, Mark, Space
Stop Bit	1: for COM1, COM2 ; 1, 2: for COM3 ~ COM4
Baud Rate	115200 bps Max.
Mounting	
Din Rail Mount	Yes
Wall Mount	Yes
LED Display	
5-Digit 7 Segment LED Display	Yes(for D Version)
System LED Indicator	Yes
Mechanism	
Flammability	Fire Retardant Materials (UL94-V0 Level)
Dimension (W x L x H)	123 mm x 72 mm x 33 mm
Operating Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +80 °C
Power	
Protection	Power Reverse Polarity Protection
Required Supply Voltage	+10 ~ +30 V _{DC} (non-regulated)
Power Consumption	2 W for PDS-742 ; 2.7 W for PDS-742D

Pin Assignment



Dimensions



Ordering Information

PDS-742 CR	Programmable Device Server with three RS-232 and one RS-485 ports (RoHS): Include one CA-0910 cable
PDS-742 D CR	Programmable Device Server with three RS-232 and one RS-485 ports with LED display (RoHS): Include one CA-0910 cable

Ordering Accessories

GPSU06U-6	24 V/0.25 A (max) Power Supply (100 ~ 240 V _{AC} Input)
MDR-20-24 CR	24 V/1 A (max) Industrial DIN Rail Power Supply (Universal AC Input, RoHS)
CA-0903	9-Pin Female D-sub & RS-232 connector cable, 30 cm Cable
CA-0910	9-Pin Female D-sub & 3-wire RS-232 cable, 1 M Cable
NS-205 CR	Unmanaged 5-Port Industrial Ethernet Switch
DN-09-2	I/O Connector Block with DIN-Rail Mounting and two 9-Pin male Header. Includes : CA-0915 x 2
DN-09-2F	I/O Connector Block with DIN-Rail Mounting and two 9-Pin male Header. Includes : CA-0910F x 2

