PDS-734/PDS-734D

Programmable Serial-to-Ethernet Device Servers

☑ 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.
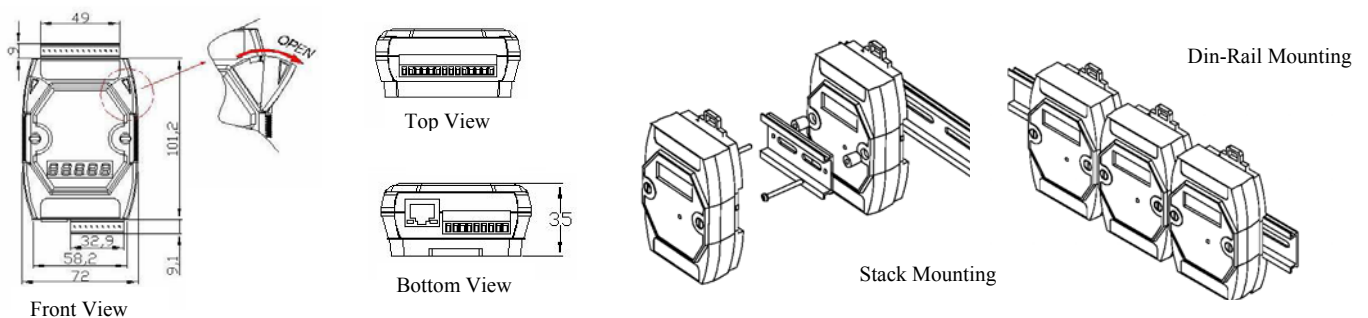
☑ Applications

- Factory Automation
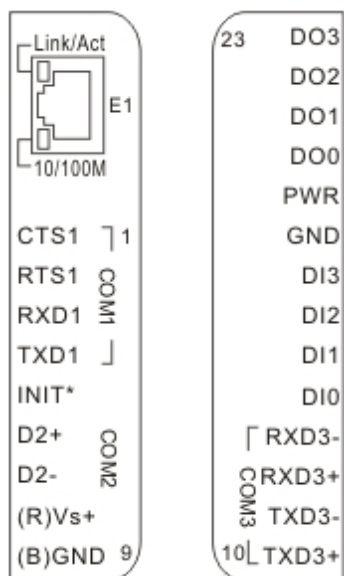- Building Automation
- Home Automation

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-422(TXD+, TXD-,RXD+, RXD-); 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 and COM2 ; 5, 6, 7, 8: for COM3
Parity	None, Even, Odd, Mark, Space
Stop Bit	1: for COM1, COM2 ; 1, 2: for COM3
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-734 ; 2.7 W for PDS-734D
Digital Output	
Output Channels	4
Output Type	Open-Collector (Sink/NPN)
Load Voltage	30 V_{DC}, max.
Load Current	100 mA, max.
Isolation Voltage	Non-isolation
Digital Input	
Input Channels	4
Input Type	Sink(Dry type), Common Ground
Off Voltage Level	+1 V max.
On Voltage Level	+3.5 ~ +30 V
Isolation Voltage	Non-isolation
Counters	Channels: 4
	Max. Count : 16 bit (65535)
	Max. Input Frequency: 100 Hz
	Min. Pulse Width: 5 ms

Dimensions

Front View

Top View

Bottom View

Stack Mounting

Din-Rail Mounting

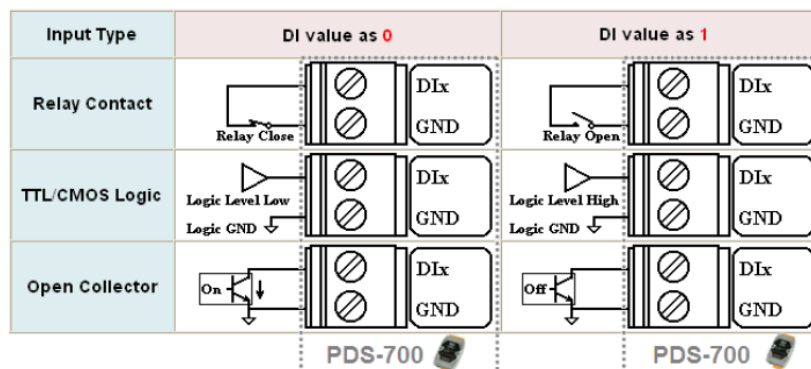## Pin Assignment

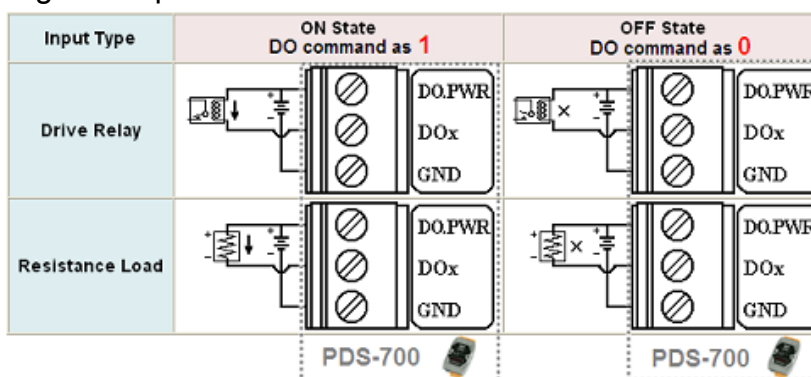## Wire Connection

Digital Input

Digital Output

Ordering Information

PDS-734 CR	Programmable Device Server with one RS-232, one RS-485, one RS-422, four DI and four DO ports (RoHS): Include one CA-0910 cable
PDS-734D CR	Programmable Device Server with one RS-232, one RS-485, one RS-422, four DI and four DO ports with LED display (RoHS): Include one CA-0910 cable

Optional 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

GPSU06U-6   MDR-20-24 CR   CA-0903   CA-0910   NS-205 CR