



System Specifications

Models		PDS-721 PDSM-721	PDS-721D PDSM-721D	PPDS-721-MTCP PPDSM-721-MTCP	PPDS-721D-MTCP PPDSM-721D-MTCP		
CPU							
CPU		80186, 80 MHz or compatible					
SRAM		512 KB					
Flash Memory		Flash ROM: 512 KB; Erase unit is one sector (64 KB); 100,000 erase/write cycles					
EEPROM		16 KB; Data retention: 40 years; 1,000,000 erase/write cycles					
Built-in Watchdog Timer		Yes					
Communicat	tion Interfac	е					
Non-isolated	COM1	RS-232 (TxD, RxD, RTS, CTS, GND)					
	COM2	RS-485 (D2+, D2-, GND)					
Ethernet 10/100 Base-TX, RJ-45 port (Auto-negotiating, auto MDI/MDI-X, LED indicator)				licator)			
PoE		-	- IEEE 802.3af				
COM Port Fo	rmats						
Data Bit			7, 8: for COM1 and COM2				
Parity		None, Even, Odd, Mark, Space None parity is required when using 8 data bits and 2 stop bits on COM1/COM2.					
Stop Bit		1, 2: for COM1 ~ COM2					
Baud Rate		115200 bps max.					
LED Indicate	ors						
5-digit 7 Segment		-	Yes	-	Yes		
System		Red					
PoE		-		Green			
Power							
Protection		Power Reverse Polarity Protection					
Required Supply Voltage			DC (non-regulated)	PoE or +12 VDC ~ +48 VD			
Power Consur	nption	2.0 W	2.7 W	2.2 W	2.9 W		
Mechanical							
Flammability		Fire Retardant Materials (UL94-V0 Level)					
Dimensions (W x H x D)		(P)PDS: 72 mm x 123 mm x 35 mm [,] (P)PDSM: 102 mm x 125mm x 29 mm					
Installation		DIN-Rail or Wall mounting					
Casing		Metal for PDSM/PPDSM , Plastic for other					
Environmen	t						
Operating Temperature		-25 °C ~ +75 °C					
Storage Temperature		-40 °C ~ +80 °C					
Humidity		5 ~ 90% RH, non-	5 ~ 90% RH, non-condensing				

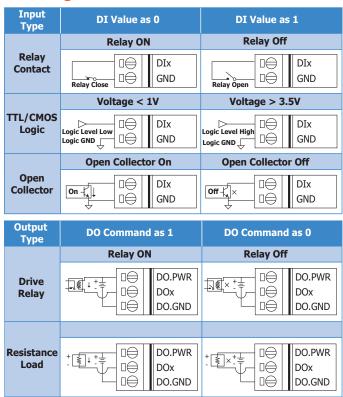
Introduction

The PDS-700 series is a family of Programmable Device Servers, also known as "Serial-to-Ethernet gateway", that are designed for linking RS-232/422/485 devices to an Ethernet network. The user-friendly VxComm Driver/Utility allows users to easily turn the built-in COM ports of the PDS-700 series into standard COM ports on a PC. By virtue of its protocol independence, a small-core OS and high flexibility, the PDS-700 series is able to meet the demands of every network-enabled application.

The PDS-700 series includes a powerful and reliable Xserver programming structure that allows you to design your robust Ethernet applications in one day. The built-in, high-performance MiniOS7 boots the PDS-700 up in just one second and gives you fastest responses. It also works as a Modbus TCP to RTU/ASCII gateway that supports most SCADA/HMI communications based on the Modbus/TCP protocol.

The PPDS-700-MTCP series features true IEEE 802.3af-compliant (classification, Class 1) Power over Ethernet (PoE) using a standard category 5 Ethernet cable to receive power from a PoE switch like the NS-205PSE. The PDSM-700 is the PDS-700 with Metal Case (RoHS) and the PPDSM-700-MTCP is the PPDS-700-MTCP with Metal Case (RoHS). Metal Case version includes stronger protection than PDS-700 and PPDS-700-MTCP.

The PDS(M)-721(D) and PPDS(M)-721(D)-MTCP is equipped with 1 RS-232 port, 1 RS-485 port and DI/DO. The removable on-board terminal block connector is designed for easy and robust wiring in industrial situations.

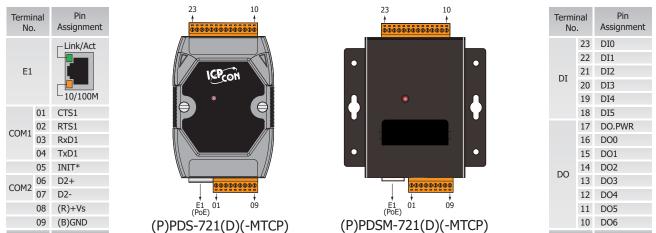


🖿 Wiring

I/O Specifications

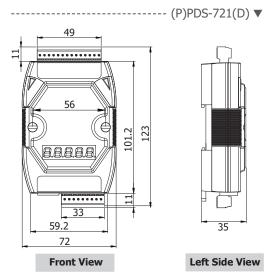
Models					
Digital Output					
Output Channel	7				
Output Type	Open Collector (Sink/NPN)				
Load Voltage	30 VDC, max.				
Load Current	100 mA, max.				
Isolated Voltage	Non-isolated				
Digital Input					
Input Channel	6				
Input Type	Source (Dry Type), Common Ground				
Off Voltage Level	+1 V max.				
On Voltage Level	+3.5 ~ +30 V				
Isolated Voltage	Non-isolated				
	Channels: 6				
Counters	Max. Count: 16-bit (65535)				
Counters	Max. Input Frequency: 100 Hz				
	Min. Pulse Width: 5 ms				

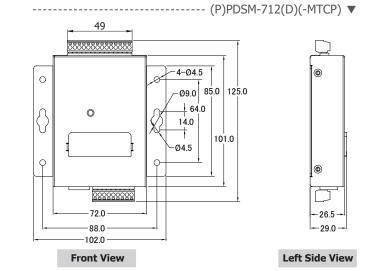
E Pin Assignments





Dimensions (Units: mm)





Ordering Information

PDS-721 CR	Programmable (1x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 6x DI and 7x DO (RoHS) Includes CA-0910 Cable		
PDS-721D CR	Programmable (1x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 6x D1D CR7x DO and LED Display (RoHS) Includes CA-0910 Cable		
Programmable (1x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 7x DO, PoE and Modbus Gateway (RoHS) Includes CA-0910 Cable			
Programmable (1x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with PPDS-721D-MTCP CR 7x DO, PoE, Modbus Gateway and LED Display (RoHS) Includes CA-0910 Cable			
PDSM-721 CR	Programmable (1x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 6x DI and 7x DO (Metal Case) (RoHS) Includes CA-0910 Cable		
PDSM-721D CR	Programmable (1x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 6x DI and 7x DO and LED Display (Metal Case) (RoHS) Includes CA-0910 Cable		
PPDSM-721-MTCP CR	Programmable (1x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 6x DI, 7x DO, PoE and Modbus Gateway (Metal Case) (RoHS) Includes CA-0910 Cable		
PPDSM-721D-MTCP CR Programmable (1x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server wit 7x DO, PoE, Modbus Gateway and LED Display (Metal Case) (RoHS) Includes CA-0910 Cable			

Accessories

CA-0903 CR	DB9 Female to 5-wire Cable [RS-232], 30cm (RoHS)	
NS-205 CR	Unmanaged 5-port Industrial Ethernet Switch (RoHS)	
NS-205PSE CR	Unmanaged 5-port 10/100 Mbps PoE (PSE) Ethernet Switch (RoHS)	