



System Specifications

Models		PDS-732 PDSM-732	PDS-732D PDSM-732D	PPDS-732-MTCP PPDSM-732-MTCP	PPDS-732D-MTCP PPDSM-732D-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	ion Interfac	e					
	COM1	RS-232 (TxD, RxD, RTS, CTS, GND)					
Non-isolated	COM2	RS-485 (D2+, D2-, GND)					
	COM3	RS-232 (TxD, RxD, RTS, CTS, GND)					
Ethernet		10/100 Base-TX, R	10/100 Base-TX, RJ-45 port (Auto-negotiating, auto MDI/MDI-X, LED indicator)				
PoE		-	- IEEE 802.3af				
COM Port Fo	rmats						
Data Bit		7, 8: for COM1 and COM2 [,] 5, 6, 7, 8: for COM3					
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 ~ COM3					
Baud Rate		115200 bps max.					
LED Indicato	ors						
5-digit 7 Segment		-	Yes	-	Yes		
System		Red	·	· · · · · · · · · · · · · · · · · · ·			
PoE		-		Green			
Power							
Protection		Power Reverse Pol	Power Reverse Polarity Protection				
Required Supp	bly Voltage	+10 VDC ~ +30 V	DC (non-regulated)	PoE or +12 VDC ~ +48 VD	C (non-regulated)		
Power Consumption		2.0 W	2.7 W	2.2 W	2.9 W		
Mechanical							
Flammability		Fire Retardant Mat	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					
Environment	t						
Operating Ten	perature	-25 °C ~ +75 °C					
Storage Temperature		-40 °C ~ +80 °C					
Humidity			5 ~ 90% RH, non-condensing				

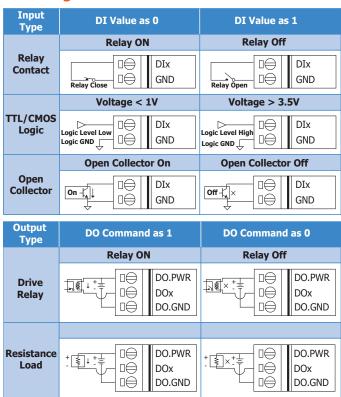
Introduction

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)-732(D) and PPDS(M)-732(D)-MTCP is equipped with 2 RS-232 ports, 1 RS-485 port and DI/DO. The removable on-board terminal block connector is designed for easy and robust wiring in industrial situations.

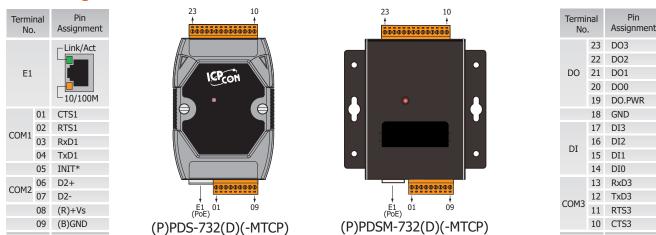


🖿 Wiring

I/O Specifications

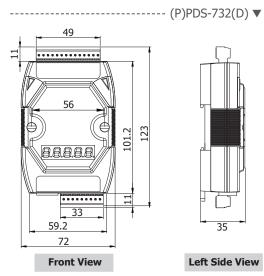
Models						
Digital Output						
Output Channel	4					
Output Type	Open Collector (Sink/NPN)					
Load Voltage	30 VDC, max.					
Load Current	100 mA, max.					
Isolated Voltage	Non-isolated					
Digital Input						
Input Channel	4					
Input Type	Source (Dry Type), Common Ground					
Off Voltage Level	+1 V max.					
On Voltage Level	+3.5 ~ +30 V					
Isolated Voltage	Non-isolated					
	Channels: 4					
Counters	Max. Count: 16-bit (65535)					
Counters	Max. Input Frequency: 100 Hz					
	Min. Pulse Width: 5 ms					

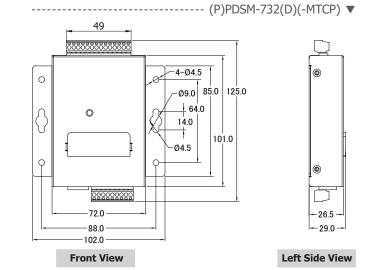
Pin Assignments





Dimensions (Units: mm)





Ordering Information

PDS-732 CR	Programmable (2x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 4x DI and 4x DO (RoHS) Includes CA-0910 Cable		
PDS-732D CR	D CR Programmable (2x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 4x DI and 4x DO and LED Display (RoHS) Includes CA-0910 Cable		
PPDS-732-MTCP CR	Programmable (2x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 4x E and 4x DO, PoE and Modbus Gateway (RoHS) Includes CA-0910 Cable		
PPDS-732D-MTCP CR Programmable (2x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server v and 4x DO, PoE, Modbus Gateway and LED Display (RoHS) Includes CA-0910 Cable			
PDSM-732 CR	Programmable (2x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 4x and 4x DO (Metal Case) (RoHS) Includes CA-0910 Cable		
PDSM-732D CR	Programmable (2x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 4x DI and 4x DO and LED Display (Metal Case) (RoHS) Includes CA-0910 Cable		
PPDSM-732-MTCP CR	Programmable (2x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 4x DI and 4x DO, PoE and Modbus Gateway (Metal Case) (RoHS) Includes CA-0910 Cable		
PPDSM-732D-MTCP CR	Programmable (2x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 4x DI and 4x 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)	