



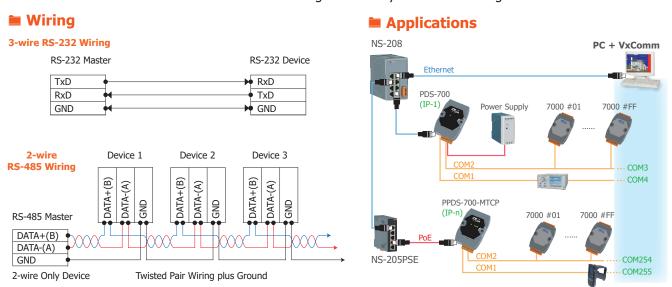
■ Introduction

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)-742(D) and PPDS(M)-742(D)-MTCP is equipped with 3 RS-232 ports and 1 RS-485 port. The removable on-board terminal block connector is designed for easy and robust wiring in industrial situations.

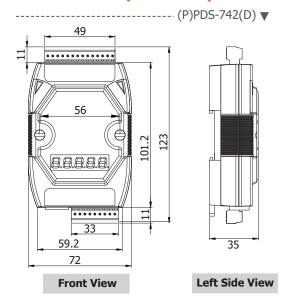


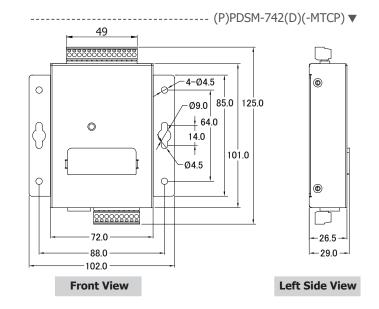
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■ System Specifications

Models		PDS-742 PDSM-742	PDS-742D PDSM-742D	PPDS-742-MTCP PPDSM-742-MTCP	PPDS-742D-MTCP PPDSM-742D-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 Interface	•				
Non-isolated	COM1	RS-232 (TxD, RxD, RTS, CTS, GND)				
	COM2	RS-485 (D2+, D2-, GND)				
	COM3	RS-232 (TxD, RxD, RTS, CTS, GND)				
	COM4	RS-232 (TxD, RxD, RTS, CTS, GND, DSR,DTR, DCD, RI)				
Ethernet		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 and COM4				
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 ~ COM4				
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		+10 Vpc ~ +30 Vpc PoE or +12 Vpc ~ +48 Vpc				
Power Consun	nption	2.0 W	2.7 W	2.2 W	2.9 W	
Mechanical			<u> </u>			
Flammability		Fire Retardant Materials (UL94-V0 Level)				
Dimensions (V	V x L x H)	(P)PDS: 72 mm x 35 mm x 123 mm , (P)PDSM: 102 mm x 29 mm x 125 mm				
Installation		(P)PDS-700 Series: DIN-Rail or Wall mounting, (P)PDSM-700 Series: Wall mounting				
Casing		Metal for PDSM/PPDSM , Plastic for other				
Environment	t					
Operating Temperature		-25 °C ~ +75 °C				
Storage Temperature		-40 °C ∼ +80 °C				
Humidity		5 ~ 90% RH, non-condensing				

■ Dimensions (Units: mm)

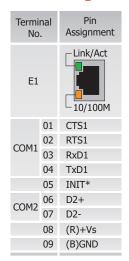




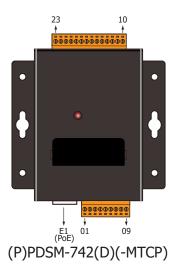
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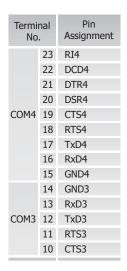


■ Pin Assignments









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■ Ordering Information

PDS-742 CR	Programmable (3x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server (RoHS) Includes CA-0910 Cable
PDS-742D CR	Programmable (3x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server and LED Display (RoHS) Includes CA-0910 Cable
PPDS-742-MTCP CR	Programmable (3x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server, PoE and Modbus Gateway (RoHS) Includes CA-0910 Cable
PPDS-742D-MTCP CR	Programmable (3x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server, PoE, Modbus Gateway and LED Display (RoHS) Includes CA-0910 Cable
PDSM-742 CR	Programmable (3x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server (Metal Case) (RoHS) Includes CA-0910 Cable
PDSM-742D CR	Programmable (3x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server and LED Display (Metal Case) (RoHS) Includes CA-0910 Cable
PPDSM-742-MTCP CR	Programmable (3x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server, PoE and Modbus Gateway (Metal Case) (RoHS) Includes CA-0910 Cable
PPDSM-742D-MTCP CR	Programmable (3x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server, 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)	

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