



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.

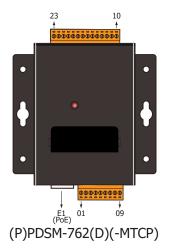
The PPDS-700-MTCP series features true IEEE 802.3af-compliant (classification, Class 1) Power over Ethernet (PoE) using a standard category 5 Ethernet cable to receive power from a PoE switch like the NS-205PSE. The PDSM-700 is the PDS-700 with Metal Case (RoHS) and the PPDSM-700-MTCP is the PPDS-700-MTCP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

The PDS(M)-762(D) and PPDS(M)-762(D)-MTCP is equipped with 5 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.

■ Pin Assignments

Terminal No.		Pin Assignment
E1		Link/Act 10/100M
	01	CTS1
COM1	02	RTS1
COMI	03	RxD1
	04	TxD1
	05	INIT*
COM2	06	D2+
COMZ	07	D2-
	80	(R)+Vs
	09	(B)GND





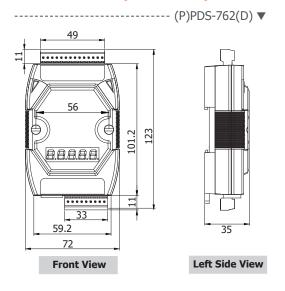
Terminal No.		Pin Assignment
	23	DO1
DO	22	DO0
	21	DO.PWR
DI	20	DI0
19		GND
COM6	18	TxD6
COMP	17	RxD6
COME	16	TxD5
COM5	15	RxD5
14		GND
COM4	13	TxD4
COM4	12	RxD4
COM2	11	TxD3
COM3	10	RxD3

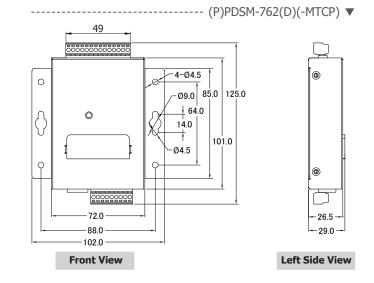
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■ System Specifications

Models		PDS-762 PDSM-762	PDS-762D PDSM-762D	PPDS-762-MTCP PPDSM-762-MTCP	PPDS-762D-MTCP PPDSM-762D-MTCP	
CPU						
CPU		80186, 80 MHz or compatible				
SRAM		512 KB				
Flash Memory		Flash ROM: 512 K	Flash ROM: 512 KB; Erase unit is one sector (64 KB); 100,000 erase/write cycles			
EEPROM		16 KB; Data retent 1,000,000 erase/w	tion: 40 years; vrite cycles			
Built-in Watch	dog Timer	Yes				
Communicat	ion Interface	е				
	COM1	RS-232 (TxD, RxD	, RTS, CTS, GND)			
	COM2	RS-485 (D2+, D2-	RS-485 (D2+, D2-, GND)			
	COM3	RS-232 (TxD, RxD	, GND)			
Non-isolated	COM4	RS-232 (TxD, RxD	, GND)			
	COM5	RS-232 (TxD, RxD	, GND)			
	COM6	RS-232 (TxD, RxD	· ,			
Ethernet	1	10/100 Base-TX, R	J-45 port (Auto-negotia	ating, auto MDI/MDI-X, LED ind	licator)	
PoE		-		IEEE 802.3af	•	
COM Port Fo	rmats					
Data Bit		7, 8: for COM1 and	d COM2 , 5, 6, 7, 8: for	COM3 and COM6		
Parity		None, Even, Odd, None parity is requ	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 ~ (1, 2: for COM1 ~ COM6			
Baud Rate		115200 bps max.				
LED Indicate	ors					
5-digit 7 Segm	nent	-	Yes	-	Yes	
System		Red				
PoE		-		Green		
Power						
Protection		Power Reverse Pol	arity Protection			
Required Supp	ly Voltage	+10 VDC ~ +30 VD	DC .	PoE or +12 VDC ~ +48 VDC		
Power Consumption		2.0 W	2.7 W	2.2 W	2.9 W	
Mechanical			<u>'</u>			
Flammability		Fire Retardant Mat	Fire Retardant Materials (UL94-V0 Level)			
Dimensions (V	V x L x H)	(P)PDS: 72 mm x	(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		2 2 4 1				
Operating Tem		-25 °C ~ +75 °C				
Storage Tempo	-	-40 °C ~ +80 °C				
Humidity		5 ~ 90% RH, non-	-condensing			

■ Dimensions (Units: mm)





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■ Wiring

Input Type	DI Value as 0	DI Value as 1	
	Relay ON	Relay Off	
Relay Contact	Relay Close GND	Relay Open DIX GND	
	Voltage < 1V	Voltage > 3.5V	
TTL/CMOS Logic	Logic Level Low DIX GND	Logic Level High	
	Open Collector On	Open Collector Off	
Open Collector	On tale Of the Original Of the	Off X DIX GND	

Output Type	DO Command as 1	DO Command as 0	
	Relay ON	Relay Off	
Drive Relay	DO.PWR DOX DO.GND	DO.PWR DOX DO.GND	
Resistance Load	DO.PWR DOX DO.GND	DO.PWR DOX DO.GND	

■ I/O Specifications

Models	
Digital Output	
Output Channel	2
Output Type	Open Collector (Sink/NPN)
Load Voltage	30 VDC, max.
Load Current	100 mA, max.
Isolated Voltage	Non-isolated
Digital Input	
Input Channel	1
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: 1
Counters	Max. Count: 16-bit (65535)
	Max. Input Frequency: 100 Hz
	Min. Pulse Width: 5 ms

■ Ordering Information

PDS-762 CR	Programmable (5x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 1x DI and 2x DO (RoHS) Includes CA-0910 Cable
PDS-762D CR	Programmable (5x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 1x DI and 2x DO and LED Display (RoHS) Includes CA-0910 Cable
PPDS-762-MTCP CR	Programmable (5x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 1x DI and 2x DO, PoE and Modbus Gateway (RoHS) Includes CA-0910 Cable
PPDS-762D-MTCP CR	Programmable (5x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 1x DI and 2x DO, PoE, Modbus Gateway and LED Display (RoHS) Includes CA-0910 Cable
PDSM-762 CR	Programmable (5x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 1x DI and 2x DO (Metal Case) (RoHS) Includes CA-0910 Cable
PDSM-762D CR	Programmable (5x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 1x DI and 2x DO and LED Display (Metal Case) (RoHS) Includes CA-0910 Cable
PPDSM-762-MTCP CR	Programmable (5x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 1x DI and 2x DO, PoE and Modbus Gateway (Metal Case) (RoHS) Includes CA-0910 Cable
PPDSM-762D-MTCP CR	Programmable (5x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with 1x DI and 2x 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)

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3/3