



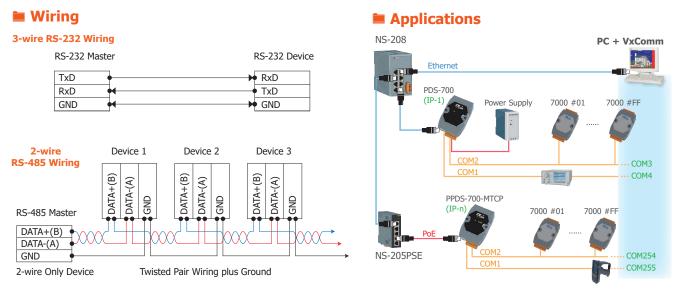
Introduction

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)-782(D) and PPDS(M)-782(D)-MTCP is equipped with 7 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.

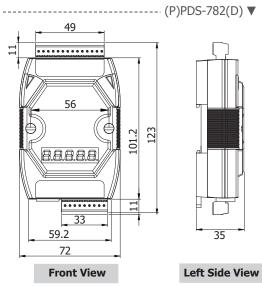


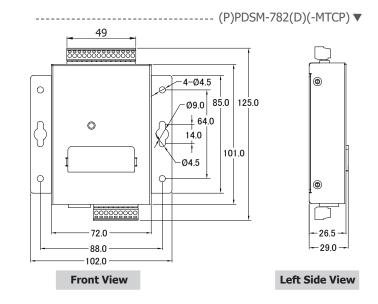
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System Specifications

Models		PDS-782 PDSM-782	PDS-782D PDSM-782D	PPDS-782-MTCP PPDSM-782-MTCP	PPDS-782D-MTCP PPDSM-782D-MTCP			
CPU								
CPU		80186, 80 MHz or compatible						
SRAM		512 KB						
Flash Memory		Flash ROM: 512 Kl	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	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)						
	COM2	RS-485 (D2+, D2-, GND)						
	COM3	RS-232 (TxD, RxD	RS-232 (TxD, RxD, GND)					
No. Sectored	COM4	RS-232 (TxD, RxD	RS-232 (TxD, RxD, GND)					
Non-isolated	COM5	RS-232 (TxD, RxD	RS-232 (TxD, RxD, GND)					
	COM6	RS-232 (TxD, RxD	RS-232 (TxD, RxD, GND)					
	COM7	RS-232 (TxD, RxD, GND)						
	COM8	RS-232 (TxD, RxD, GND)						
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 COM8						
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 ~ COM8						
Baud Rate		115200 bps max.						
LED Indicato	ors							
5-digit 7 Segment		-	Yes	-	Yes			
System		Red	,					
PoE		-		Green				
Power								
Protection		Power Reverse Polarity Protection						
Required Supp	oly 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 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	-25 °C ~ +75 °C					
Storage Temperature		-40 °C ~ +80 °C						
Humidity		5 ~ 90% RH, non-	5 ~ 90% RH, non-condensing					

Dimensions (Units: mm)

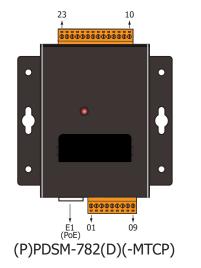






Pin Assignments

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Terminal No.		Pin Assignment	23 10 † †
E1		Link/Act 10/100M	IEPcon
COM1	01	CTS1	
	02	RTS1	
	03	RxD1	
	04	TxD1	
	05	INIT*	
COM2	06	D2+	
	07	D2-	
	08	(R)+Vs	E1 01 09 (PoE) 09
	09	(B)GND	(P)PDS-782(D)(-MTCP)



Termii No		Pin Assignment
COM8	23	TxD8
COM8	22	RxD8
COM7	21	TxD7
COM/	20	RxD7
	19	GND
COM6	18	TxD6
COMO	17	RxD6
COM5	16	TxD5
COMS	15	RxD5
	14	GND
COM4	13	TxD4
COM	12	RxD4
COM3	11	TxD3
COMS	10	RxD3

Ordering Information

PDS-782 CR	Programmable (7x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server (RoHS) Includes CA-0910 Cable
PDS-782D CR	Programmable (7x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server and LED Display (RoHS) Includes CA-0910 Cable
PPDS-782-MTCP CR	Programmable (7x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server, PoE and Modbus Gateway (RoHS) Includes CA-0910 Cable
PPDS-782D-MTCP CR	Programmable (7x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server, PoE, Modbus Gateway and LED Display (RoHS) Includes CA-0910 Cable
PDSM-782 CR	Programmable (7x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server (Metal Case) (RoHS) Includes CA-0910 Cable
PDSM-782D CR	Programmable (7x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server and LED Display (Metal Case) (RoHS) Includes CA-0910 Cable
Programmable (7x RS-232 and 1x RS-485) Serial-to-Ethernet Device Serv Modbus Gateway (Metal Case) (RoHS) Includes CA-0910 Cable	
PPDSM-782D-MTCP CR	Programmable (7x 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)	