

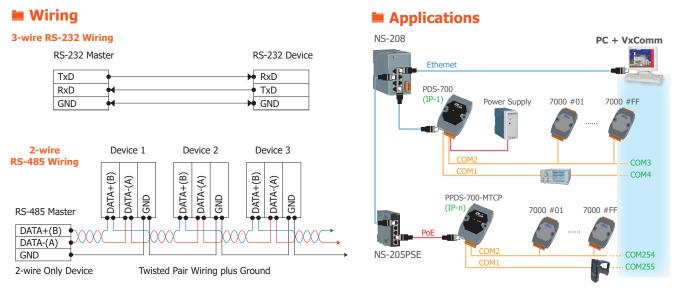
### Introduction

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.

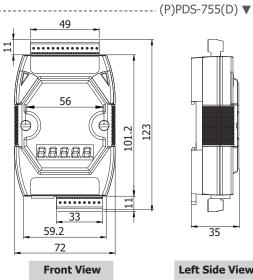
The PDS(M)-755(D) and PPDS(M)-755(D)-MTCP is equipped with 1 RS-232 port and 4 RS-485 ports. The removable on-board terminal block connector is designed for easy and robust wiring in industrial situations.



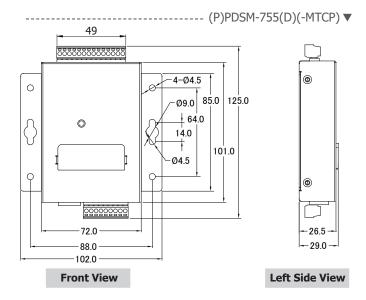
# System Specifications

Models		PDS-755 PDSM-755	PDS-755D PDSM-755D	PPDS-755-MTCP PPDSM-755-MTCP	PPDS-755D-MTCP PPDSM-755D-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							
	COM1	RS-232 (TxD, RxD, RTS, CTS, GND)						
	COM2	RS-485 (D2+, D2-, GND)						
Non-isolated	COM3	RS-485 (DATA+, D	RS-485 (DATA+, DATA-, GND)					
	COM4	RS-485 (DATA+, DATA-, GND)						
	COM5	RS-485 (DATA+, DATA-, 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 <sup>,</sup> 5, 6, 7, 8: for COM3 and COM5						
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 ~ COM5						
Baud Rate		115200 bps max.						
LED Indicato	ors							
5-digit 7 Segment		-	Yes	-	Yes			
System		Red	Red					
РоЕ		-		Green				
Power								
Protection		Power Reverse Polarity Protection						
Required Supply Voltage		+10 VDC ~ +30 VDC (non-regulated) PoE or -		PoE or +12 VDC ~ +48 VD	E or +12 VDC ~ +48 VDC (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						
Environment	t							
Operating Temperature		-25 °C ~ +75 °C						
Storage Temperature		-40 °C ~ +80 °C						
Humidity		5 ~ 90% RH, non-condensing						

### Dimensions (Units: mm)



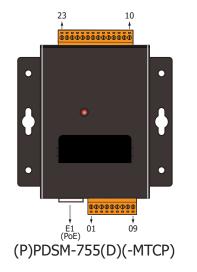






# Pin Assignments

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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*	$\mathbb{N}$
COM2	06	D2+	
	07	D2-	+ + +
	08	(R)+Vs	E1 01 09 (PoE) 09
	09	(B)GND	(P)PDS-755(D)(-MTCP)



Termi No	-	Pin Assignment
COME	23	DATA+
COM5	22	DATA-
	21	
	20	
	19	
	18	
COM4	17	DATA+
COM4	16	DATA-
	15	
	14	
	13	
	12	
сом3	11	DATA+
COM3	10	DATA-

# Ordering Information

PDS-755 CR	Programmable (1x RS-232 and 4x RS-485) Serial-to-Ethernet Device Server (RoHS) Includes CA-0910 Cable	
PDS-755D CR	Programmable (1x RS-232 and 4x RS-485) Serial-to-Ethernet Device Server and LED Display (RoHS) Includes CA-0910 Cable	
PPDS-755-MTCP CR	Programmable (1x RS-232 and 4x RS-485) Serial-to-Ethernet Device Server, PoE and Modbus Gateway (RoHS) Includes CA-0910 Cable	
PPDS-755D-MTCP CR	Programmable (1x RS-232 and 4x RS-485) Serial-to-Ethernet Device Server, PoE, Modbus Gateway and LED Display (RoHS) Includes CA-0910 Cable	
PDSM-755 CR	Programmable (1x RS-232 and 4x RS-485) Serial-to-Ethernet Device Server (Metal Case) (RoHS) Includes CA-0910 Cable	
PDSM-755D CR	Programmable (1x RS-232 and 4x RS-485) Serial-to-Ethernet Device Server and LED Display (Metal Case) (RoHS) Includes CA-0910 Cable	
Programmable (1x RS-232 and 4x RS-485) Serial-to-Ethernet Device Server, PoE ar Modbus Gateway (Metal Case) (RoHS) Includes CA-0910 Cable		
PPDSM-755D-MTCP CR	Programmable (1x RS-232 and 4x 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)	