

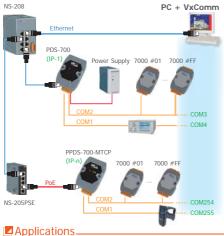
Introduction .

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 dives you fastest responses.

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 PPDS-700-MTCP also works as a Modbus/TCP to Modbus/RTU gateway that supports most SCADA/HMI communications based on the Modbus/TCP protocol.

The PDS-755(D) and PPDS-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.



Factory, Building and Home Automation

RS-232/RS-485

Features

- Incorporate Serial Devices in an Ethernet network
- Virtual COM on Windows NT 4.0, 2000/XP/2003 and Vista32
- Powerful Programmable Device Server
- Watchdog Timer suitable for use in harsh environments
- Power Reverse Polarity Protection
- Serial Port +/-4 kV ESD Protection Circuit
- Self-Tuner ASIC Controller on the RS-485 Port
- 5-digit LED Display (for versions with a display)
 RoHS Compliant with no Halogen
- Built-in High Performance MiniOS7 from ICP DAS
- 10/100 Base-TX Ethernet, RJ-45 Port
- (Auto-negotiating, auto MDI/MDI-X, LED indicator)

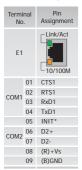
 PPDS-755(D)-MTCP supports Modbus/TCP and Modbus/RTU
- PPDS-755(D)-MTCP supports PoE (IEEE 802.3af, Class 1)
- Low power consumption
- Palm-Sized with multiple Serial Ports
- Made from fire retardant materials (UL94-V0 Level)



System Specifications.

Models	System	порс	Jonioati	0113		
CPU	Models		PDS-755	PDS-755D	PPDS-755-MTCP	PPDS-755D-MTCP
SRAM	CPU					
Flash Memory	CPU		80186, 80 MHz or compatible			
Erase unit is one sector (64 KB): 100,000 erase/write cycles	SRAM					
Built-In Yes	Flash Memory		Erase unit is one sector (64 KB);			
Matchdog Timer	EEPROM					
Non- Solated RS-232 (TxD, RxD, RTS, CTS, GND) COM2 RS-485 (D2T+, D2*, GND) COM3 RS-485 (DATA+, DATA-, GND) COM4 RS-485 (DATA+, DATA-, GND) COM5 RS-485 (DATA+, DATA-, GND) COM5 RS-485 (DATA+, DATA-, GND) COM6 RS-485 (DATA+, DATA-, GND) COM7 RS-485 (DATA+, DATA-, GND) COM8 RS-485 (DATA+, DATA-, GND) COM9 RS-485 (DATA-, DATA-, GND) COM9 RS-485 (DATA-, DATA-, GND) COM9 RS-485 (DATA-, DATA-, GND) COM9 RS-485 (D			Yes			
Non- Solated COM2 RS-485 (D2+, D2-, GND) COM3 RS-485 (DATA+, DATA-, GND) COM4 RS-485 (DATA+, DATA-, GND) COM5	Communication	n Interfa	ce			
COM3 RS-485 (DATA+, DATA-, GND)		COM1				
COM3 RS-485 (DATA+, DATA-, GND)		COM2				
COM# RS-485 (DATA+, DATA-, SND)		COM3				
Ethernet		COM4				
Auto MDI/MDI-X, LED indicator Formats		COM5				
Data Bit	Ethernet		10/100 Base-TX, RJ-45 port (Auto-negotiating,			
Data Bit	PoE		-		IEEE 802.3	Baf
Parity None, Even, Odd, Mark, Space	COM Port For	mats				
Stop Bit	Data Bit					
1,2: for COM3 - COM5	Parity		None, Even, Odd, Mark, Space			
Ves Ves	Stop Bit					
S-digit 7 Segment -	Baud Rate					
System	LED Indicator	S				
PoE - Green Power Power Reverse Polarity Protection Required Supply Voltage +10 Voc − +30 Voc (non-regulated) PoE or +12 Voc − +48 Voc (non-regulated) Power Consumption 2.0 W 2.7 W 2.2 W 2.9 W Mechanical Fire Retardant Materials (UL94-V0 Level) Dimansions 72 mm x 123 mm x 35 mm (W x H x D) Installation DIN-Rail or Wall mounting Environment Operating Temperature -25 °C − +75 °C Storage Temperature -40 °C − +80 °C	5-digit 7 Segment		-	Yes	-	Yes
Power						
Protection Power Reverse Polarity Protection Required Supply Voltage (non-regulated) +10 Voc − +30 Voc (non-regulated) PoE or +12 Voc − +48 Voc (non-regulated) Power Consumption 2.0 W 2.7 W 2.2 W 2.9 W 2.9 W Mechanical Flammability Fire Retardant Materials (UL94-V0 Level) Dimensions 72 mm x 123 mm x 35 mm (W x H x D) Installation DIN-Rail or Wall mounting Din-Rail or Wall mounting Environment Operating Temperature -25 °C − +75 °C Storage Temperature -40 °C − +80 °C			- Green			
Required	Power					
Supply Voltage	Protection		Power Reverse Polarity Protection			
Mechanical Fire Retardant Materials (UL94-V0 Level)						
Flammability Fire Retardant Materials (UL94-V0 Level)	Power Consumption		2.0 W	2.7 W	2.2 W	2.9 W
Dimensions 72 mm x 123 mm x 35 mm (W x H x D)	Mechanical					
Installation	Flammability		Fire Retardant Materials (UL94-V0 Level)			
Environment Operating	Dimensions		72 mm x 123 mm x 35 mm (W x H x D)			
Operating Temperature -25 °C - +75 °C Storage Temperature -40 °C - +80 °C	Installation		DIN-Rail or Wall mounting			
Temperature -25 °C ~ +75 °C Storage Temperature -40 °C ~ +80 °C	Environment					
Temperature -40 °C ~ +80 °C			-25 °C ~ +75 °C			
Humidity 5 ~ 90% RH, non-condensing		e	-40 °C ~ +80 °C			
	Humidity		5 ~ 90% R	H, non-cond	ensing	

Pin Assignments





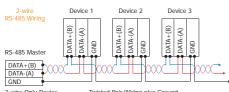


Termin		Pin Assignment
COM5	23	DATA+
	22	DATA-
21		
20		
19		
18		
COM4	17	DATA+
COIVI4	16	DATA-
15		
14		
13		
	12	
COM3	11	DATA+
COM3	10	DATA-

Wiring

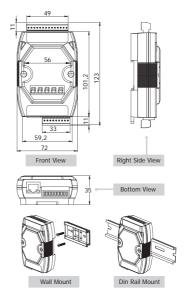
3-wire RS-232 Wiring





2-wire Only Device Twisted Pair Wiring plus Ground

■ Dimensions (Unit: mm) _



Ordering Information

PDS-755 CR	Programmable Device Server with 1 RS-232 port and 4 RS-485 ports (RoHS)
	Includes One CA-0910 Cable
PDS-755D CR	Programmable Device Server with 1 RS-232 port, 4 RS-485 ports and an LED Display (RoHS)
	Includes One CA-0910 Cable
PPDS-755-MTCP CR	Programmable Device Server with PoE, Modbus/TCP, 1 RS-232 port and 4 RS-485 ports (RoHS)
	Includes One CA-0910 Cable
PPDS-755D-MTCP CR	Programmable Device Server with PoE, Modbus/TCP, 1 RS-232 port, 4 RS-485 ports and an LED Display (RoHS)
	Includes One CA-0910 Cable

Accessories.

GPSU06U-6	24 Voc/0.25 A, 6 W Power Supply	
MDR-20-24	24 Voc/1 A, 24 W Power Supply with DIN-Rail Mounting	
DIN-KA52F-48	48 V∞/0.52 A, 25 W Power Supply with Din-Rail Mounting	
CA-0903	9-Pin Female D-Sub and RS-232 Connector Cable, 30 cm Cable	
CA-0910	9-Pin Female D-Sub and 3-wire RS-232 Cable, 1 m Cable	
NS-205 CR	Unmanaged 5-port Industrial Ethernet Switch (RoHS)	
NS-205PSE CR	Unmanaged Ethernet Switch with 4 PoE Ports and 1 RJ-45 Uplink (RoHS)	