



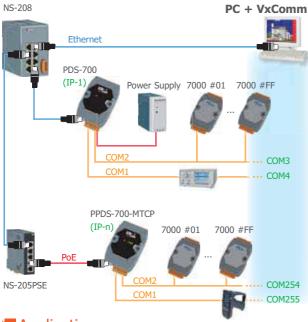
Introduction .

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.

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-782(D) and PPDS-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.



Applications_

Factory, Building and Home Automation

Spectra GmbH & Co. KG www.spectra.de spectra@spectra.de

Niederlassung Österreich www.spectra-austria.at info@spectra-austria.at

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-782(D)-MTCP supports Modbus/TCP and Modbus/RTU
- PPDS-782(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)

CEFC Kohs POE

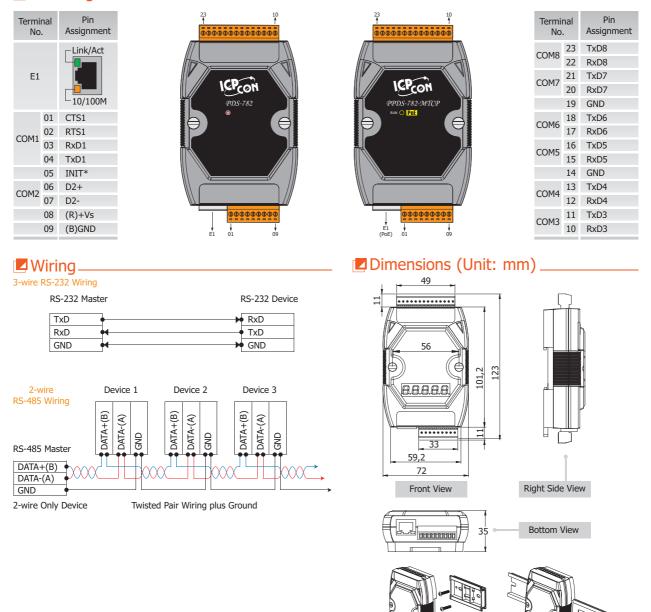
System Specifications.

Models		PDS-782	DDC-792D	PPDS-782-MTCP	PPDS-782D-MTCP	
CPU		FD3-702	FD3-702D	FFD3-702-PHICF	FFD3-702D-MITCF	
CPU		80186 80 MHz or compatible				
SRAM		80186, 80 MHz or compatible 512 KB				
SKAIM		Flash ROM: 512 KB; Erase unit is one sector				
Flash Memory		(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				
Communication Interface						
Non- isolated	COM1	RS-232 (TxD, RxD, RTS, CTS, GND)				
	COM2	RS-485 (D2+, D2-, GND)				
	COM3	RS-232 (TxD, RxD, GND)				
	COM4	RS-232 (TxD, RxD, GND)				
	COM5	RS-232 (TxD, RxD, GND)				
	COM6	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 802.3	af	
COM Port Formats						
Data Bit		7, 8: for COM1 and COM2				
Parity		None, Even, Odd, Mark, Space				
Stop Bit		1: for COM1 and COM2				
Baud Rate		115200 bps max.				
LED Indicators						
5-digit 7 Segment		-	Yes	-	Yes	
System		Red				
PoE		- Green				
Power						
Protection		Power Reverse Polarity Protection				
Required Supply Voltage		+10 $V_{DC} \sim$ +30 V_{DC} (non-regulated) PoE or +12 $V_{DC} \sim$ +48 V (non-regulated)				
Power Cons	-	2.0 W	2.7 W	2.2 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				
Environment				5		
Operating		-25 °C ~ +75 °C				
Temperature Storage		-40 °C ~ +80 °C				
Temperature						
Humidity		5 ~ 90% RH, non-condensing				

Spectra (Schweiz) AG www.spectra.ch info@spectra.ch



Pin Assignments



Ordering Information _____

Art. No. 119376	PDS-782 CR	Programmable Device Server with 7 RS-232 ports and 1 RS-485 port (RoHS)
		Includes One CA-0910 Cable
Art. No. 119377	PDS-782D CR	Programmable Device Server with 7 RS-232 ports, 1 RS-485 port and an LED Display (RoHS)
		Includes One CA-0910 Cable
Art. No. 123219	PPDS-782-MTCP CR	Programmable Device Server with PoE, Modbus/TCP, 7 RS-232 ports and 1 RS-485 port (RoHS)
		Includes One CA-0910 Cable
Art. No. 123257	PPDS-782D-MTCP CR	Programmable Device Server with PoE, Modbus/TCP, 7 RS-232 ports, 1 RS-485 port and an LED Display (RoHS)
		Includes One CA-0910 Cable

Accessories _

GPSU06U-6	24 Vcc/0.25 A, 6 W Power Supply			
MDR-20-24	24 V∞/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)			
DN-09-2	I/O Connector Block with DIN-Rail Mounting and Two 9-Pin Male Header. Includes CA-0915 x 2 (9-Pin Male-Female D-Sub Cable 1.5 m)			
DN-09-2F	I/O Connector Block with DIN-Rail Mounting and Two 9-Pin Male Header. Includes CA-0910F x 2 (9-Pin Female-Female D-Sub Cable 1.0 m)			

Wall Mount

Din Rail Mount