



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

PDS-755 PDS-755D PPDS-755-MTCP PPDS-755D

80186, 80 MHz or compatible

Erase unit is one sector (64 KB);

16 KB: Data retention: 40 years:

100,000 erase/write cycles

1,000,000 erase/write cycles

COM1 RS-232 (TxD, RxD, RTS, CTS, GND)

RS-485 (DATA+, DATA-, GND)

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7, 8: for COM1 and COM2

1: for COM1 and COM2

1, 2: for COM3 ~ COM5 115200 bps max

5, 6, 7, 8: for COM3 - COM5 None, Even, Odd, Mark, Space

Yes

Power Reverse Polarity Protection

Fire Retardant Materials (UL94-V0 Level) 72 mm x 123 mm x 35 mm (W x H x D)

2.7 W

DIN-Rail or Wall mounting

5 ~ 90% RH, non-condensing

+10 Vpc ~ +30 Vpc

(non-regulated)

-25 °C ~ +75 °C

-40 °C ~ +80 °C

auto MDI/MDI-X, LED indicator)

10/100 Base-TX, RJ-45 port (Auto-negotiating,

IEEE 802.3af

Yes

PoE or +12 Vpc ~ +48 Vpc

2.9 W

(non-regulated)

2.2 W

RS-485 (D2+, D2-, GND)

Flash ROM: 512 KB:

- PPDS-755(D)-MTCP supports PoE (IEEE 802.3af, Class 1)
- Low power consumption
- Palm-Sized with multiple Serial Ports

System Specifications

CPU

CPU

SDAM

Flash Memory

Built-in Watchdog Timer

Communication Interface

COM4

FFDDOM.

Non

isolated

Ethernet

Data Bit

Stop Bit

System PoE

Protection

Required

Mechanical

Supply Voltage

Flammability

Dimensions

Installation Environment

Operating

Temperature Storage

Temperature Humidity

Power Consumption 2.0 W

Baud Rate LED Indicators 5-digit 7 Segment

Parity

COM Port Formats

PoF

Made from fire retardant materials (UL94-V0 Level)



512 KR

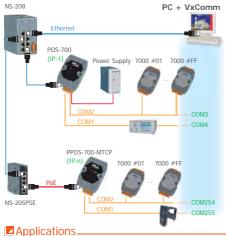
Introduction _

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-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.

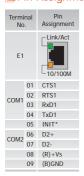


Factory, Building and Home Automation

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Pin Assignments



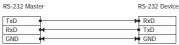


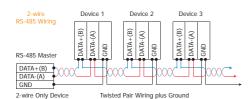


Terminal No.		Pin Assignment
COM5	23	DATA+
	22	DATA-
	21	
	20	
	19	
18		
COM4	17	DATA+
	16	DATA-
	15	
	14	
	13	
	12	
сомз	11	DATA+
	10	DATA-

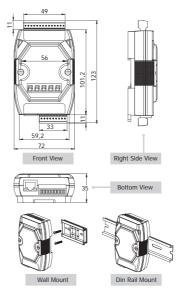
Wiring

3-wire RS-232 Wiring





■ 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 V _{bc} /0.25 A, 6 W Power Supply
MDR-20-24	24 V _{bc} /1 A, 24 W Power Supply with DIN-Rail Mounting
DIN-KA52F-48	48 V _{bc} /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)