



NEW PDS-732(D) Available PPDS-732(D)-MTCP

Programmable Device Serve RS-232 ports and

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-732(D) and PPDS-732(D)-MTCP is equipped with 2 RS-232 ports, 1 RS-485 port and DI/DO. The removable on-board terminal block connector is designed for easy and robust wiring in industrial situations.

Applications_

Factory, Building and Home Automation

I/O Specifications

4
Open Collector (Sink/NPN)
30 Voc, max.
100 mA, max.
Non-isolated
4
Source (Dry Type), Common Ground
+1 V max.
+3.5 ~ +30 V
Non-isolated
Channels: 4
Max. Count: 16-bit (65535)
Max. Input Frequency: 100 Hz
Min. Pulse Width: 5 ms

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-732(D)-MTCP supports Modbus/TCP and Modbus/RTU
- PPDS-732(D)-MTCP supports PoE (IEEE 802.3af, Class 1) Supports D/I, Latched D/I and Counter Functions
- Low power consumption
- Palm-Sized with multiple Serial Ports



System Specifications.

Models		PDS-732	PDS-732D	PPDS-732-MTCP	PPDS-732D-MTCP
CPU					
CPU		80186, 80 MHz or compatible			
SRAM		512 KB			
Flash Memo	ry	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 T	imer	Yes			
Communicatio	n Interfa	ice			
	COM1	RS-232 (T)	D, RxD, RTS	, CTS, GND)	
Non- isolated	COM2	RS-485 (D2	2+, D2-, GNE))	
Isolated	COM3	RS-232 (T)	D, RxD, RTS	, CTS, GND)	
Ethernet			se-TX, RJ-45 MDI-X, LED ir		egotiating,
PoE		-		IEEE 802.3	laf
COM Port Forr	nats				
Data Bit	Data Bit		7, 8: for COM1 and COM2 5, 6, 7, 8: for COM3		
Parity		None, Even, Odd, Mark, Space			
Stop Bit		1: for COM1 and COM2 1, 2: for COM3			
Baud Rate		115200 bps max.			
LED Indicators	6				
5-digit 7 Segment		-	Yes	-	Yes
System		Red			
PoE		-		Green	
Power					
Protection		Power Rev	erse Polarity	Protection	
Required Supply Voltage		+10 V _{DC} ~ (non-regula		PoE or +12 (non-regula	Voc ~ +48 Voc ated)
Power Consumption		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					
Operating Temperatur	Operating Temperature		75 °C		
Storage Temperatur	е	-40 °C ~ +80 °C			
Humidity		5 ~ 90% R	H, non-cond!	ensing	

3

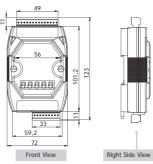
Pin Assignments

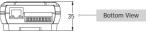
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		-Link/Act	6	7	\square	//		Π		23	DO3
			(Hi			the second		Ite		22	DO2
E1			11	1.00				M	DO	21	DO1
				// ICPC	011		ICPCON V			20	DO0
		L10/100M	Ĩ	PDS-7	732	Ĩ	PPDS-732-MTCP			19	DO.PWR
	01	CTS1				þ				18	GND
COM1	02	RTS1				P		1		17	DI3
	03	RxD1								16	DI2
	04	TxD1						///	DI	15	DI1
	05	INIT*	///		14	D10					
0.40	06	D2+	///			MC		//		13	RxD3
COM2	07	D2-	N.				00110	12	TxD3		
	80	(R)+Vs		000	0000000		000000000		COM3	11	RTS3
	09	(B)GND		E1 01	+ 09		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			10	CTS3

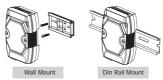
Viring _____

Input Type	DI Value as 0	DI Value as 1
	Relay ON	Relay Off
Relay Contact	Relay Close	Relay Open
	Voltage < 1V	Voltage > 3.5V
TTL/CMOS Logic	Logic Level Low Logic GND	Logic Level High Logic GND U
	Open Collector On	Open Collector Off
Open Collector		
Output Type	DO Command as 1	DO Command as 0
	Relay ON	Relay Off
Drive Relay		
Resistance Load	[↑]	[↑] ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

Dimensions (Unit: mm)







Ordering Information _____

PDS-732 CR	Programmable Device Server with 2 RS-232 ports and 1 RS-485 port (RoHS)
	Includes One CA-0910 Cable
PDS-732D CR	Programmable Device Server with 2 RS-232 ports, 1 RS-485 port and an LED Display (RoHS)
PD3-732D CR	Includes One CA-0910 Cable
PPDS-732-MTCP CR	Programmable Device Server with PoE, Modbus/TCP, 2 RS-232 ports and 1 RS-485 port (RoHS)
PPDS-732-WITCP CR	Includes One CA-0910 Cable
PPDS-732D-MTCP CR	Programmable Device Server with PoE, Modbus/TCP, 2 RS-232 ports, 1 RS-485 port and an LED Display (RoHS)
	Includes One CA-0910 Cable

Accessories_____

GPSU06U-6	24 V₀c/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 Voc/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)

3