



NEW PDS-721(D) Available PPDS-721(D)-MTCP

Programmable Device Server ith 1 RS-232 port 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-721(D) and PPDS-721(D)-MTCP is equipped with 1 RS-232 port, 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.

Models: PDS-721/PD				
Digital Output				
Output Channel	7			
Output Type	Open Collector (Sink/NPN)			
Load Voltage	30 Vpc, max.			
Load Current	100 mA, max.			
Isolated Voltage	Non-isolated			
Digital Input				
Input Channel	6			
Input Type	Source (Dry Type), Common Ground			
Off Voltage Level	+1 V max.			
On Voltage Level	+3.5 ~ +30 V			
Isolated Voltage	Non-isolated			
	Channels: 6			
Counters	Max. Count: 16-bit (65535)			
oounici's	Max. Input Frequency: 100 Hz			
	Min. Pulse Width: 5 ms			

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-721(D)-MTCP supports Modbus/TCP and Modbus/RTU

X

PoE

- PPDS-721(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

CEFC

Sv	ystem	Spec	cificat	ions.
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Models		PDS-721	PDS-721D	PPDS-721-MTCP	PPDS-721D-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			a retention: erase/write o			
Built-in Watchdog T	imer	Yes				
Communicatio	n Interfa	ice				
Non-	COM1	RS-232 (Tx	D, RxD, RTS	, CTS, GND)		
isolated	COM2	RS-485 (D2	2+, D2-, GNE))		
Ethernet			e-TX, RJ-45 /IDI-X, LED ir	port (Auto-n ndicator)	egotiating,	
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	s					
5-digit 7 Segment		-	Yes	-	Yes	
System		Red				
PoE		- Green				
Power						
Protection		Power Reve	erse Polarity	Protection		
Required Supply Voltage		+10 V _{DC} ~ +30 V _{DC} (non-regulated)		PoE or +12 Voc ~ +48 Vo (non-regulated)		
Power Cons	umption	2.0 W	2.7 W	2.2 W	2.9 W	
Mechanical						
Flammabilit	у	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	Environment					
Operating Temperature		-25 °C ~ +75 °C				
Storage Temperatur	e	-40 °C ~ +80 °C				
Humidity		5 ~ 90% RH, non-condensing				



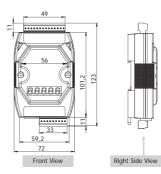
Pin Assignments

Termi No		Pin Assignment	23 1 00000000000000000000000000000000000	23 10 1 000000000000000000000000000000000	Term No		Pin Assignmer
		Link/Act				23	D10
			The second secon			22	DI1
E1			100	100	DI	21	D12
			ICPCON	ICPCON	DI	20	D13
		L 10/100M	PDS-721			19	DI4
	01	CTS1				18	DI5
	02	RTS1				17	DO.PWR
OM1	03	RxD1				16	DO0
	04	TxD1				15	D01
	05	INIT*				14	DO2
	06	D2+			DO	13	DO3
COM2	0M2 07 D2-	D2-				12	DO4
	08	(R)+Vs	••••••	00000000		11	D05
	09	(B)GND		E1 + + (PoE) 01 09		10	D06

Wiring _____

Input Type	DI Value as 0	DI Value as 1		
	Relay ON	Relay Off		
Relay Contact	□⊖ DIx Relay Close □⊖ GND	Relay Open C DIx Relay Open C DIx C DIx C DIx C DIx C DIx C DIx		
	Voltage < 1V	Voltage > 3.5V		
TTL/CMOS Logic	Logic Level Low Logic GND	Logic Level High Logic GND		
	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	DO.PWR	∴ I DO.PWR DOX DOX DO.GND		

Dimensions (Unit: mm)





Wall Mount



Bottom View

Ordering Information _____

Art. No. 119361	DDS 701 CD	Programmable Device Server with 1 RS-232 port and 1 RS-485 port (RoHS)
Art. No. 119361	PD3-721 GR	Includes One CA-0910 Cable
Art. No. 119362	DDC 701D CD	Programmable Device Server with 1 RS-232 port , 1 RS-485 port and an LED Display (RoHS)
AIL 110. 110002	PD3-721D CK	Includes One CA-0910 Cable
Art. No. 123210	PPDS-721-MTCP CR	Programmable Device Server with PoE, Modbus/TCP, 1 RS-232 port and 1 RS-485 port (RoHS)
	FFD3=721=WITCF CK	Includes One CA-0910 Cable
Art. No. 122819	PPDS-721D-MTCP CR	Programmable Device Server with PoE, Modbus/TCP, 1 RS-232 port, 1 RS-485 port and an LED Display (RoHS)
		Includes One CA-0910 Cable

Accessories _____

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