



Programmable Device Server



Available soon PDS-5105D-MTCP

Programmable Device Server with 10 RS-485 Ports,
2-Port Switch and LED Display

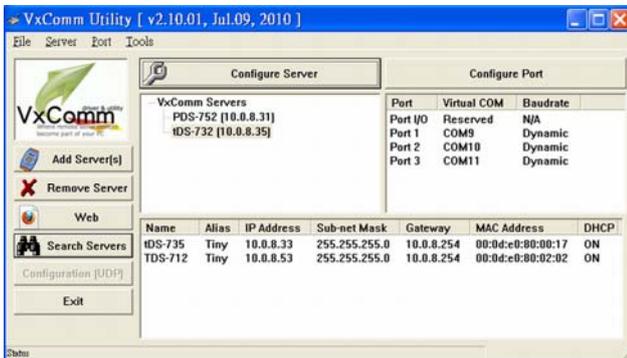
Features

- Integrates any RS-232/485 serial device in an Ethernet Network
- Virtual COM extends the PC COM ports
- Virtual COM supports 32-bit and 64-bit Windows XP/2003/Vista/7
- Powerful programmable device server
- Watchdog timer suitable for use in harsh environments
- Power reverse polarity protection
- Serial port +/- 2 kV ESD protection circuit
- Self-tuner ASIC controller on the RS-485 port
- RoHS compliant & no halogen
- Built-in high performance MiniOS7 from ICP DAS
- 2-Port 10/100 Base-TX Ethernet Switch with LAN Bypass
- ODM service is available
- Low power consumption
- Made from fire-retardant materials (UL94-V0 level)



Introduction

The PDS-5105D-MTCP is a Programmable Device Server, also known as a "Serial-to-Ethernet gateway" that is designed to allow Ethernet connectivity to be added to RS-232/485 devices.



The user-friendly VxComm Driver/Utility allows users to easily turn the built-in COM ports of the PDS-5105D-MTCP series into standard COM ports on a PC. By virtue of its protocol independence, specialized OS and high flexibility, the PDS-5105D-MTCP series is able to meet the demands of any network-enabled application.

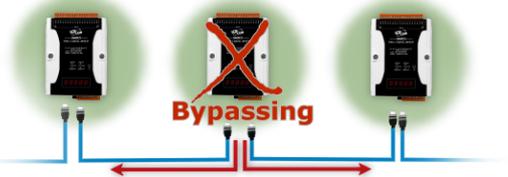
The PDS-5105D-MTCP series includes a powerful and reliable Xserver programming structure that allows you to quickly develop custom robust Ethernet applications. The built-in, high-performance MiniOS7 boots the PDS-5105D-MTCP up in just one second and gives you the fastest response.

2-Port Ethernet Switch with LAN Bypass

The PDS-5105D-MTCP is equipped with a 2-port 10/100 Base-Tx Ethernet switch that simplifies network wiring by cascading Ethernet devices. Furthermore, the module features a LAN Bypass function allowing network traffic to

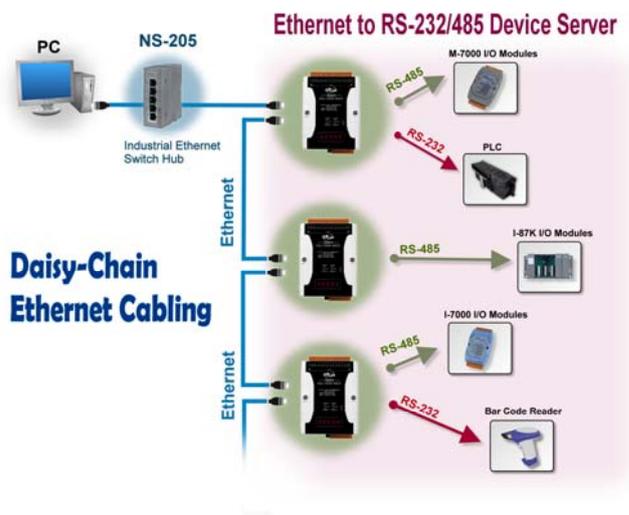
be continued between two network segments (Ethernet port1 and port2). In cases where the module is offline due to software, hardware or power failure, the LAN Bypass function will be automatically activated, and the essential communications on the network can continue operating without interruption.

LAN Bypass Feature



Applications

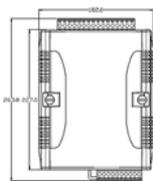
- Factory, Building and Home Automation



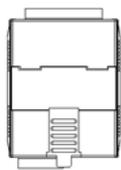
Specifications

System	
CPU	80186 or compatible (16-bit and 80 MHz)
SRAM	512 KB
Flash	512 KB; Erase unit is one sector (64 KB); 100,000 erase/write cycles
EEPROM	16 KB
Watchdog Timers	Yes (0.8 seconds)
Communication Ports	
Ethernet	2-Port 10/100 Base-TX Ethernet Switch with LAN Bypass, RJ-45 x 2 (Auto-negotiating, Auto-MDI/MDIX, LED indicator)
COM1	RS-232(TxD, RxD, GND)/RS-485(D1+, D1-), Self-tuner ASIC inside, non-isolated
COM2~10	RS-485(Dx+, Dx-), Self-tuner ASIC inside, non-isolated
COM Port Formats	
Baud Rate	115200 bps Max. @ 10 Ports, half-duplex, 80% loading
Data Bit	7, 8: for COM1 and COM2 5, 6, 7, 8: for COM3~COM10
Parity	None, Odd, Even, Mark, Space
Stop Bit	1, 2: for COM1~COM10
LED Indicator	
5-digit 7 Segment	Yes
System	Red
Mechanical	
Dimensions (W x H x D)	91 mm x 123 mm x 52 mm
Installation	DIN-Rail
Case	Fire-Retardant Plastic (UL94-V0 Level)
Environmental	
Operating Temperature	-25° ~ 75°C
Storage Temperature	-30° ~ 85°C
Humidity	10 ~ 90% RH, non-condensing
Power Consumption	0.05 A @ 24 V _{DC}
Power	
Protection	Power reverse polarity protection
Frame GND	Yes (for EMS Protection)
Input Range	+12 ~ +48 V _{DC} (non-regulated)
Power Consumption	4.8 W

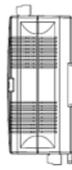
Dimensions (Unit: mm)



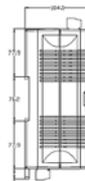
Front View



Rear View



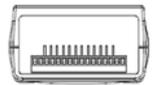
Right Side View



Left Side View



Bottom View



Top View

Ordering Information

PDS-5105D-MTCP CR	Programmable Device Server with 10 RS-485 Ports, 2-Port Switch and LED Display. (RoHS)
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Accessories

GPSU06U-6	24 V _{DC} /0.25 A, 6 W Power Supply
MDR-20-24 CR	24 V _{DC} /1 A, 24 W Power Supply with DIN-Rail
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)
DIN-KA52F-48	48 V _{DC} /0.52 A, 25 W Power Supply with Din-Rail



GPSU06U-6



MDR-20-24 CR



CA-0903



CA-0910



NS-205 CR



DIN-KA52F-48