



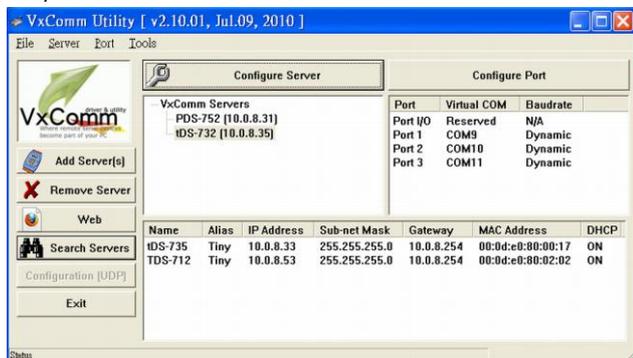
Features

- 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/7/8
- Powerful programmable device server
- Watchdog timer suitable for use in harsh environments
- Power reverse polarity protection
- Serial port +/- 2 kV ESD protection circuit
- Provides 10 RS-485 ports with Self-Tuner ASIC (Auto-direction control)
- 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.



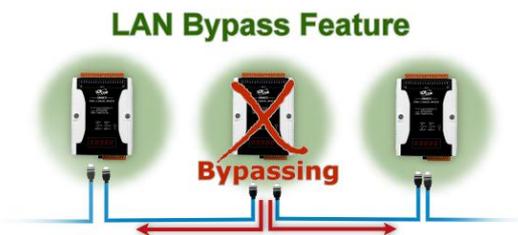
The user-friendly VxComm Driver/Utility allows users to easily turn the built-in COM ports of the PDS-5105D-MTCP series into standard COM ports on a PC. By virtue of its protocol independence, specialized OS and high flexibility, the PDS-5105D-MTCP series is able to meet the demands of any network-enabled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

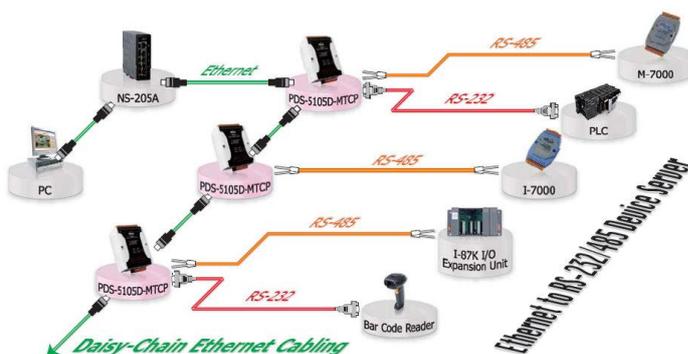
The PDS-5105D-MTCP is equipped with a 2-port 10/100 Base-Tx Ethernet switch that simplifies network wiring by cascading Ethernet devices. Furthermore, the module features a LAN Bypass

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.



Applications

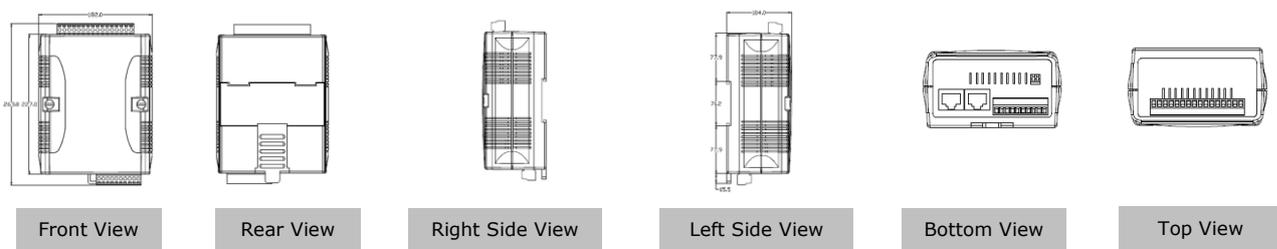
- Factory, Building and Home Automation



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 Vdc (non-regulated) |
| Power Consumption | 4.8 W |

Dimensions (Unit:mm)



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 Vdc/0.25 A, 6 W Power Supply |
| MDR-20-24 CR | 24 Vdc/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 Vdc/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