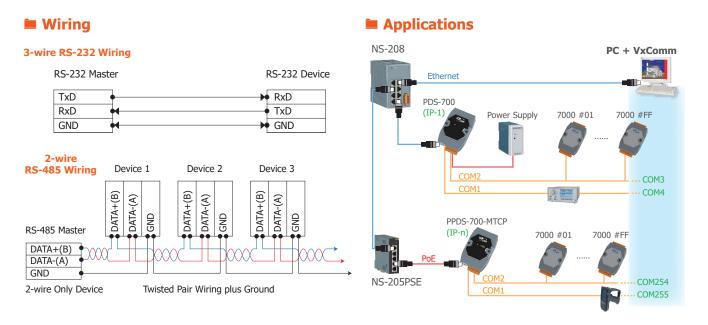


#### Introduction

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.

PDS-782(D)-25/D6 is equipped with 7 RS-232 ports and 1 RS-485 port. The CA-9-2505D cable converts the DB-25 connector of PDS-782(D)-25/D6 to 6 Male DB-9 connectors for easy wiring with serial devices that have female DB-9 connectors.



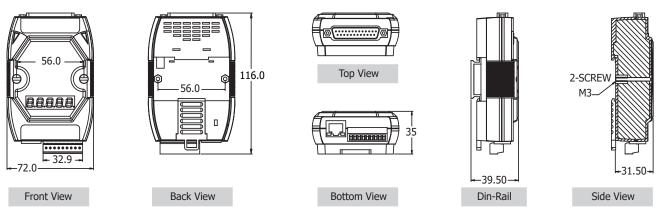
# KOLBINGER - PCQT - +43 2239 3160

AT-2384 Breitenfurt/Vienna, Hauptstrasse 93, info@kolbinger.at, www.kolbinger.at

### System Specifications

| Models                  |               | PDS-782-25/D6 PDS-782D-25/D6   |  |  |  |  |  |
|-------------------------|---------------|--|--|--|--|--|--|
| 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                  |               | 16 KB; Data retention: 40 years;<br>1,000,000 erase/write cycles   |  |  |  |  |  |
| Built-in Watc           | hdog Timer    | Yes  |  |  |  |  |  |
| Communica               | ation Interfa | ace  |  |  |  |  |  |
|                         | COM1          | RS-232 (TxD, RxD, RTS, CTS, GND)   |  |  |  |  |  |
|                         | COM2          | RS-485 (D2+, D2-, GND)   |  |  |  |  |  |
|                         | COM3          | RS-232 (TxD, RxD, GND)   |  |  |  |  |  |
| Nie in Steelinke d      | COM4          | RS-232 (TxD, RxD, GND)   |  |  |  |  |  |
| Non-isolated            | COM5          | RS-232 (TxD, RxD, GND)   |  |  |  |  |  |
|                         | COM6          | RS-232 (TxD, RxD, GND)   |  |  |  |  |  |
|                         | COM7          | RS-232 (TxD, RxD, GND)   |  |  |  |  |  |
|                         | COM8          | RS-232 (TxD, RxD, GND)   |  |  |  |  |  |
| Ethernet                |               | 10/100 Base-TX, RJ-45 port (Auto-negotiating, auto MDI/MDI-X, LED indicator)                                 |  |  |  |  |  |
| COM Port F              | ormats        |  |  |  |  |  |  |
| Data Bit                |               | 7, 8: for COM1 and COM2 <sup>,</sup> 5, 6, 7, 8: for COM3 and COM8   |  |  |  |  |  |
| Parity                  |               | None, Even, Odd, Mark, Space<br>None parity is required when using 8 data bits and 2 stop bits on COM1/COM2. |  |  |  |  |  |
| Stop Bit                |               | 1, 2: for COM1 ~ COM8  |  |  |  |  |  |
| Baud Rate               |               | 115200 bps max.  |  |  |  |  |  |
| LED Indicat             | tors          |  |  |  |  |  |  |
| 5-digit 7 Seg           | ment          | - Yes  |  |  |  |  |  |
| System                  |               | Red  |  |  |  |  |  |
| Power                   |               |  |  |  |  |  |  |
| Protection              |               | Power Reverse Polarity Protection  |  |  |  |  |  |
| Required Supply Voltage |               | +10 VDC ~ +30 VDC (non-regulated)  |  |  |  |  |  |
| Power Consumption       |               | 2.0 W 2.7 W  |  |  |  |  |  |
| Mechanical              |               |  |  |  |  |  |  |
| Flammability            |               | Fire Retardant Materials (UL94-V0 Level)   |  |  |  |  |  |
| Dimensions (W x H x D)  |               | 72 mm x 116 mm x 35 mm   |  |  |  |  |  |
| Installation            |               | DIN-Rail or Wall mounting  |  |  |  |  |  |
| Casing                  |               | Plastic  |  |  |  |  |  |
| Environme               | nt            |  |  |  |  |  |  |
| Operating Temperature   |               | -25 °C ~ +75 °C  |  |  |  |  |  |
| Storage Temperature     |               | -40 °C ~ +80 °C  |  |  |  |  |  |
| Humidity                |               | 5 ~ 90% RH, non-condensing   |  |  |  |  |  |

### **Dimensions (Units: mm)**



ICP DAS CO., LTD



# Pin Assignments

| Termi<br>No | -                                | Pin<br>Assignment                            | COM3~COM8(RS-232) | Pin<br>Assignment   | Terminal                               | No.                              | Pin<br>Assignment  | Pin<br>Assignment         | Terminal                   |         | No.                  | Pin<br>Assignment |
|-------------|----------------------------------|--|-------------------|---|--|----------------------------------|--|---------------------------|----------------------------|---------|----------------------|-------------------|
| E1          |                                  | Link/Act<br>10/100M                          |                   | N/A<br>N/A<br>COM8_GND<br>N/A<br>COM7_GND<br>N/A                  | 01<br>02<br>03<br>04<br>05<br>06       | 14<br>15<br>16<br>17<br>18<br>19 | COM8_RxD<br>COM8_TxD<br>COM7_RxD<br>COM7_TxD<br>COM6_RxD<br>COM6_TxD | GND<br><br>TxD<br>RxD<br> | 05<br>04<br>03<br>02<br>01 |         | 19<br>18<br>17<br>16 |                   |
| COM1        | 01<br>02<br>03<br>04<br>05<br>06 | CTS1<br>RTS1<br>RxD1<br>TxD1<br>INIT*<br>D2+ |                   | COM6_GND<br>N/A<br>COM5_GND<br>N/A<br>COM4_GND<br>N/A<br>COM3_GND | 07<br>08<br>09<br>10<br>11<br>12<br>13 | 20<br>21<br>22<br>23<br>24<br>25 | COM5_RxD<br>COM5_TxD<br>COM4_RxD<br>COM4_TxD<br>COM3_RxD<br>COM3_TxD | RS-232 Fem                | ale DB-25                  | to Male | DB-                  | 9 Connector       |
| COM2        | 00<br>07<br>08<br>09             | D2-<br>(R)+Vs<br>(B)GND                      |                   | _   | Pin Male D-Sub                         | Shield<br>Connec                 |  |                           |                            |         |                      |                   |

# Ordering Information

| PDS-782-25/D6 CR  | Programmable (7x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server (RoHS)   |
|-------------------|--|
|                   | Includes CA-0910 Cable and CA-9-2505D Cable                                      |
|                   | Programmable (7x RS-232 and 1x RS-485) Serial-to-Ethernet Device Server with LED |
| PDS-782D-25/D6 CR | Display (RoHS)   |
|                   | Includes CA-0910 Cable and CA-9-2505D Cable                                      |

#### **Accessories**

| CA-0903 CR  | DB9 Female to 5-wire Cable [RS-232], 30cm (RoHS)                                    |
|-------------|---|
| NS-205 CR   | Unmanaged 5-port Industrial Ethernet Switch (RoHS)                                  |
|             | Two Male DB9 to Screw Terminal Board (Pitch= 5.08 mm) with DIN-rail Mounting (RoHS) |
| DN-09-2 CR  | Includes: CA-0915 x 2 (DB9(Male) to DB9(Female) Cable [RS-232; Pin1-Pin9], 1.5M)    |
|             | Two Male DB9 to Screw Terminal Board (Pitch= 5.08 mm) with DIN-rail Mounting (RoHS) |
| DN-09-2F CR | Includes: CA-0910F x 2 (DB9(Female) to DB9(Female) Cable [RS-232; Pin1-Pin9], 1M)   |