

## NETDIO

### RS-232/485/422/DIO to Ethernet Data Gateway



#### FEATURES:

- Provides one RS-232/422/485 port over LAN
- Provides 7 Digital I/O lines over LAN
- Input for external Reset
- Supports 4-wire RS232/485 and 2-wire RS-485 applications
- Built-in 15KV ESD Protection for ALL Signals
- Provides TCP Server, TCP Client, and UDP
- Provides one 10/100Mbps, RJ45 LAN Port
- +12VDC via DC Jack or Terminal Block

The NETDIO data gateway is designed to adopt your industrial serial devices to the Internet instantly. It delivers simple, reliable and cost-effective network connectivity for multiple serial devices. It addresses the need to connect individual RS-232 or RS-422/485 devices, such as PLCs, meters, sensors, etc., to an IP-based Ethernet LAN. It allows your application software to access serial devices anywhere on a local area network or the Internet.

The NETDIO provides 7 GPIO (General Purpose Input Output) pins to provide extra digital I/O control signals over Internet as well.

A reset input port is designed to reset the hardware of the NETDIO.

The NETDIO is easy to install locally or remotely through a variety of IP addressing methods (UDP, IP, TCP, ICMP, HTTP, DHCP, ARP-Ping). It is ideal for applications requiring either serial ports or Digital I/O environments and network device management.



## SPECIFICATIONS

### LAN Port:

- **Ethernet:** 10/100 Mbps, RJ45 connector
- **Protocols:** UDP, IP, TCP, ICMP, HTTP, DHCP, ARP-Ping

### Serial Interface:

The Serial interface provides a DB9 RS-232 connector and a RS-422/485 terminal block connector. You can use either RS-232 or RS-422/485 (but not the same time).

The key benefits are:

- **RS-232 Connector:** DB9 male
- **RS-422/485 Connector:** 4-pin terminal block, 2/4-wire configured via DIP switch
- **Interface:** 3 modes are selectable: 4-wire RS-422 (TXD+/-, RXD+/-). 2-wire RS-485 (TxD+/-, RxD+/-). 2-wire RS-485 (Data+/-, Data+/-)
- **Parity:** None, Even, Odd
- **Data bits:** 7,8
- **Speed:** 300bps to 115.2Kbps
- **Terminator:** 120 OHM, can be Enabled/Disabled by DIP switch
- 15KV ESD protection for all signals
- Provides wall and rack mounting holes

### Digital I/O pins:

7 Digital I/O pins for control applications. They are designed with terminal block connectors

### Reset Input

The reset input connector accepts the active signal from outside. If the signal was forced to low, then the NETDIO will reset the hardware.

### Power Requirements:

+12VDC DC from Jack or from Terminal Block Connector

### Environmental:

Operating Temp.: 0 to 55°C (32 to 131°F)

Storage Temp: -20 to 85°C (-4 to 185°F)

Operating Humidity: 5 to 95% RH

### Form Factor:

5.98" (L) x 2.76" (W) x 1.06" (H) (15.20 x 7.00 x 2.70 cm)



### Distributed by:

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