

# DX-2300 Series

## Industrial Ethernet Cloud Routers



-20~70°C



FANLESS



- ▶ Data acquisition device connected to cloud servers. Supports a two-way data collection channel between the device and the cloud
- ▶ Sets up a secure tunnel between the user and the remote device via the cloud server, without the need of additional VPN servers
- ▶ Supports MODBUS TCP and MODBUS ASCII/RTU protocols
- ▶ Flexible connection method over WAN port, e.g. static IP, DHCP client and more
- ▶ Various peripheral interfaces include RS-485, RS-232 and 4 LAN ports
- ▶ Built-in RTC and supports NTP time synchronization over a network
- ▶ Firewall functions: Stateful Packet Inspection (SPI), Prevent Denial of Service (DoS) attacks, NAT, port triggering, port mapping, IP address filtering, MAC address filtering, URL filtering
- ▶ Supports TCP/IP, UDP, ICMP, DHCP, HTTP, DNS and SSH protocols
- ▶ Scheduled jobs are available
- ▶ Device configurations import /export
- ▶ Network data flow statistics
- ▶ Networking failure diagnostics
- ▶ Device and PLC interlocking
- ▶ Custom alarm conditions with email alerts

## Specifications

### TECHNOLOGY

#### Standard Compliance

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-T(X)

### INTERFACE

#### Fast Ethernet

##### RJ45 Ports:

- WAN: 1 10/100Base-T(X), auto MDI/MDI-X, auto negotiation
- LAN: 4 10/100Base-T(X), auto MDI/MDI-X, auto negotiation

# Specifications

## INTERFACE

### Serial Communication

#### Serial Ports :

- 1 RS-232(DB9 male), 1 RS-485 (Terminal block), 15KV isolation protection

#### Baud Rate:

- 2400bps to 115200bps

#### Data Bits:

- 7, 8

#### Parity:

- None, Even, Odd

#### Stop Bits:

- 1, 2

#### Flow Control:

- RTS/CTS(RS-232 only), XON/XOFF

#### RS-232:

- TxD, RxD, RTS, CTS, GND

#### RS-485

- D+, D-, GND

#### LEDs

#### Device:

- PWR, SD, Ready

#### RJ45 Ports:

- 100M, LINK/ACT

#### Serial Ports:

- RS-232, RS-485

#### Reset Button

- 1 set

## MANAGEMENT

### Cloud Service

- DIACloud

### Software

- SSH, DNS, HTTP, TFTP, DHCP Server/Client, Telnet, Syslog, MODBUS TCP, NTP, MODBUS ASCII/RTU

### Security

- MAC/IP/URL filtering, SSH, SPI, Prevent denial of service (DoS) attacks, Port triggering, Port mapping

### Virtual COM Drivers

- Windows XP, Windows Vista (32/64 bits), Windows 7 (32/64 bits)

### Configuration

- Web Browser, DIACom, Android/iOS App

## POWER REQUIREMENTS

### Input Voltage

- 9 to 40V<sub>DC</sub>, 2 pin terminal block input

### Input Current

- Max. 0.53A

### Overload Current Protection

- Present, Max. Input current 1.5A

### Reverse Polarity Protection

- NOT Present

## PHYSICAL

### Housing

- IP30 metal case

### Dimensions

- 145.3 mm(H) x 45 mm(W) x 112.3 mm (D)

### Weight

- 308g

### Installation

- Industrial DIN-Rail and wall mounting

## ENVIRONMENTAL LIMITS

### Operating Temperature

- -20°C to 70°C (-4°F to 158°F)

### Storage Temperature

- -40°C to 85°C (-40°F to 185°F)

### Ambient Relative Humidity

- 5% to 95% (non-condensing)

## APPROVALS

### Safety

- UL 60950-1, EN 60950-1

### EMI

- FCC 47 CFR Part 15 Subpart B Class A
- EN 55022

### EMS (EN 55024)

- IEC 61000-4-2, IEC 61000-4-3,  
IEC 61000-4-4, IEC 61000-4-5,  
IEC 61000-4-6, IEC 61000-4-8

### Environmental Type Tests

#### Cold Temperature

- IEC 60068-2-1

#### Dry Heat:

- IEC 60068-2-2

#### Humidity:

- IEC 60068-2-30

#### Shock:

- IEC 60255-21-2

#### Freefall:

- IEC 60068-2-32

#### Vibration:

- IEC 60068-2-6

#### Hi-Pot:

- 1.5KV

## Ordering Information

Product		Port Combination			Interface			Region
Model Name	Operating Temperature	10/100 Base-T(X)	RS-232	RS-485	DI	DO (Relay)	Power Input	
DX-2300LN-CN	-20°C to 70°C	5	1	1	---	---	1	China
DX-2300LN-WW	-20°C to 70°C	5	1	1	---	---	1	Worldwide