

801 Series

Substation Protocol Gateways



Product Description

801 series protocol converters can provides both industrial communication device and solution of the whole industrial automation system,which plays more important roles in industrial control and automation,especially in the substation automation.

Protocol conversion supported:

Standard protocols that 801 support: UCA2,Ethernet(TCP/IP),DNP, OPC, Modbus RTU & TCP, IEC60870-5 series(IEC101,IEC102,IEC103,IEC104), IEC61850,RS-232.RS485/422,CAN,etc.

Non-standard protocol: DC screen,power meter,safety equipments.The different protocols of data can convert with each other in the 801

Product Features

Low latency: 5 to 50ms latency.

Strong data processing ability.

Reliable communication management

Specifications:

Hardware:

10/100MTCP/IP: 2-6 nos
RS422/232/485 4-16 nos DI/DO 8
nos
LED lights: 8nos

Software:

Maximum channels: 200
Maximum digital number/channel: 65536
Maximum analog number/channel: 65536
Maximum electric degree/channel: 65536
Maximum output/channel: 65536
Maximum analog output/channel: 65536
Data forwarding base: 4
Minimum data processing latency: 5ms
Time synchronization precision: <1ms(Hardware synchronization)

Technical specs:

400Mhz Freescale MPC8308 CPU
128M DDR2 Memory
128M Nand Flash
2 Ethernet Ports
4 RS-232/485 Isolation Serial Ports
DIN-Rail Mount

Others:

System

CPU Freescale MPC8308 PowerPC CPU,400MHz

Memory DDR2 128M

Flash 8M Nor Flash

128M Nand Flash

Operating System Linux 2.6.29.6

LED

System:Power x1,RUN x1,

LAN:10/100/1000M x4(Link x2 Act x2)

Serial:TxD x4,RxD x4

Others

RTC,Buzzer,Watchdog Timer,Reset button,Console Port x1

Serial Communication

Console Port

Console Port RJ45 connector x1

RS232 115200bps N,8,1

Serial Port

4xRS-232/485 TB Interface connector

software-selectable

RS-232 Signals: TxD,RxD,GND

RS-485 Signals: 485A(Data+),485B(Data-)

Protection

Built-in 15KV ESD protection for all signals, 2KV iCoupler digital isolation protection

Network Communication

LAN

Auto-sensing 10/100/1000Mbps x 2, RJ45

Build-in 1.5KV magnetic isolation protection

Power Requirements

Power Input

Dual Power Input Design

PWR1:9-48V_{DC} or 9-48V_{AC}

PWR2:9-48V_{DC} or 9-48V_{AC}

Lost power alarm

Relay empty node

Power Consumption

8W@12V_{DC}

Mechanical

Dimensions

200(L)x121.01(W)x54.1(H)

Installation

DIN-Rail Mount

Environmental

Operating Temperature

-20-60°C

Storage Temperature

-30-80°C

Regulatory Approvals and Warranty

EMC

GB/T 17626.2-2006 Class 4

GB/T 17626.4-2008 Class 4

GB/T 17626.5-2008 Class 4

GB/T 17626.6-2008 Class 3

Warranty

5 Years