INP314T-4DI(3IN1)-DB-2P(12-48VDC)

DIN-Rail or Wall Mounting

4 RS-232/485/422 to 2 100M Ethernet Ports Serial Server

- Support 4 3IN1 serial port with isolation to 2 10/100Base-T(X) self-adaptive Ethernet interface

- Support RealCom, TCP Server, TCP Client, UDP Server, UDP Client, Pair Master, Pair Slave, UDP Rang, UDP Multicast and other operating modes

- Support 12~48VDC wide voltage input

- Support -40~75℃ wide operating temperature range

Introduction

INP314T-4DI(3IN1)-DB-2P(12-48VDC) is serial device server that can make serial device be equipped with networking capability instantly and centrally manage the scattered serial devices and hosts via network. This product supports 4 3IN1 serial ports to 2 100M Ethernet copper ports which supports electromagnetic isolation. It adopts rail or wall mounting to meet the requirements of different application scenes.

Serial device server supports multiple network protocols, such as TCP, UDP, TELNET, ARP, ICMP, HTTP, DNS and DHCP protocol. It also possesses complete management functions, including Access Control, Rapid Configuration, Online Upgrading and so on. Each serial port supports 4 TCP or UDP session connections, and it also supports RealCom, TCP Server, TCP Client, UDP Server, UDP Client, Pair Master, Pair Slave, UDP Rang, UDP Multicast operating modes and TELNET, WEB access modes. Furthermore, supplied management configuration tool based on Windows platform can guide the user to manage and configure the device, achieving immediate networking of serial device via simple settings. It can provide users with good experience with friendly design of network management system interface, simple and convenient operation.

DIP switch can achieve restore factory defaults of the device. Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in PLC control and management, Building Automation System, Health Care Automation System, measuring instrument and environmental forces monitoring system.
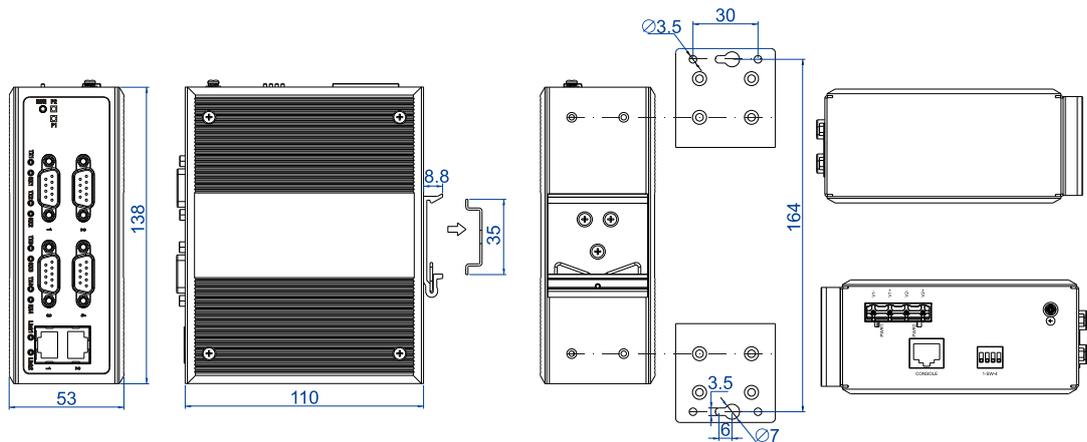
Features and Benefits

- ◉ Support 2 10/100Base-T(X) self-adaptive Ethernet interfaces and provide dual IP and MAC addresses to meet the requirements of multi-network management or network backups
- ◉ Support 300bps-921600bps line speed and non-blocking communication
- ◉ Support RealCom, TCP Server, TCP Client, UDP Server, UDP Client, Pair Master, Pair Slave, UDP Rang, UDP Multicast and other operating modes
- ◉ Support cross-gateway and cross-router communication
- ◉ Support multiple hosts polling mode, which allows multiple hosts to access the same serial port
- ◉ Support delimiter matching communication, achieving various demands for serial port packaging
- ◉ Support FIFO, compatible with various old type terminal devices
- ◉ Support IP address and MAC address filtering, which can achieve accurate access control easily
- ◉ Support graded user management to implement humanized authority management

- ⊙ Support serial port status and parameters monitoring, ensuring the communication status be clear at a glance
- ⊙ Support RTS/CTS, DTR/DSR and XON/XOFF flow control
- ⊙ Compatible with various virtual serial port management software
- ⊙ Support virtual serial port drive access mode and automatic connection recovery after network interruption
- ⊙ Flexible serial port data framing setting, which can satisfy user's various demands for data packets segmentation
- ⊙ Support standard TCP/IP SOCKET application access
- ⊙ TCP supports multi-connection, which allows maximum 4 users to monitor or manage the serial device simultaneously
- ⊙ UDP supports single machine or multi-machine communication, which allows multiple users to monitor or manage the serial device simultaneously
- ⊙ Support multiple configuration forms like Windows configuration tool, TELNET and WEB

Dimension

Unit:mm

Specification

Ethernet	Standard: 10Base-T, 100Base-TX
	Protocol: TCP, UDP, ARP, HTTP, TELNET, ICMP, DHCP, DNS
	Rate: 10/100M Automatic Flow Control, MDI/MDI-X Autotunning
	Interface quantity: 2
	Interface form: RJ45
	Duplex mode: Self-adaptive Full/Half Duplex Mode
	Operating mode: 4 sessions, support RealCom, TCP Server, TCP Client, UDP Server, UDP Client, Pair Master, Pair Slave, UDP Rang

	and UDP Multicast operating modes
Serial Port	Standard: EIA RS-232C, RS-485, RS-422
	Quantity of serial port: 4 3IN1 serial ports
	RS-232 signal: RXD, GND, TXD
	RS-485 signal: D+, D-, GND
	RS-422 signal: T+, T-, GND, R+, R-
	Baud rate: 300-921600bps
	Data bit: 7bit, 8bit
	Parity bit: None, Even, Odd, Space, Mark
	Stop bit: 1bit, 2bit
	Interface form: 3IN1 serial port, DB9 male;
	Directional control: RS-485 direction adopts Automatic Data Direction Control technology
	Load capacity: RS-485/422 end supports 32 points polling (customizable 128 points)
	Electromagnetic isolation strength: 2KV
Configuration Method	WEB configuration management, TELNET configuration, Windows configuration tool
Security	Classification of User Permissions, IP address filtering, MAC address filtering, WEB Console, TELNET Console
Indicator	Power indicator, Running indicator, Ethernet port indicator, Serial port transmission and receiving data indicator
Power Supply	12~48VDC, dual power supply redundancy
	Power supply nonpolarity
Power Consumption	No-load: 2.59W@48VDC
	Full-load: 2.93W@48VDC
Working environment	Operating temperature: -40~75℃
	Storage temperature:-40~85℃
	Relative humidity: 5%～95%（no condensation）
Physical Characteristic	Housing: IP40 protection, metal
	Installation: DIN-Rail or wall mounting
	Dimension (W x H x D): 53mm×138mm×110mm
	Weight: 640g
Industrial Standard	IEC 61000-4-2 (ESD, electrostatic discharge), Level 3
	● Air discharge: ±8kV

- Contact discharge: ±6kV

IEC 61000-4-4 (EFT, electrical fast transient pulses), Level 3
- Power supply: ±2kV
- Signal: ±1kV

IEC 61000-4-5 (Surge), Level 3
- Power supply: common mode±2kV, differential mode±1kV
- Signal: common mode ±1kV, differential mode ±1kV

Shock: IEC 60068-2-27
Free fall: IEC 60068-2-32
Vibration: IEC 60068-2-6

Certification	CE, FCC, RoHS
Warranty	3 years

Ordering Information

Model	100M Copper Port	3IN1 (RS-232/485/422) with Isolation	Power Supply
INP314T-4D(3IN1)-DB-2P(12-48VDC)	2	4	12~48VDC, dual power supply redundancy

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