AT-NP301

PRODUCT OVERVIEW: - Model : AT-NP301 (Industrial)This industrial rail-type serial port server is IP40 protection grade, which is a serial port networking server that enables serial port devices to have networking capabilities immediately, and can centrally manage scattered serial devices, hosts, etc. through the network. This product supports 1 channel of AT-NP301 to 1 channel of Fast Ethernet, and can be installed in 35mm rail or wall mount to meet the needs of different application sites.

The serial port server supports a variety of network protocols, such as TCP, UDP, ARP, ICMP, HTTP, DNS, DHCP, and SNMP protocols; it has complete management functions, supports access control, rapid configuration, online upgrade, etc.; each serial port supports 4 channels TCP Or UDP session connection, support **Modbus TCP, TCP Server, TCP Client, UDP Server, UDP** Client, and other working modes; support WEB access mode. In addition, the provided management and configuration tool based on the Windows platform can guide users to manage and configure the device step by step, and realize the immediate networking of serial devices through simple settings. The interface design of the network management system is friendly, the operation is simple and convenient, and it can bring you a good user experience.

The hardware adopts fanless, low power consumption, wide temperature and wide voltage design. It has passed strict tests in line with industry standards, and can adapt to industrial field environments with strict EMC requirements. It can be widely used in PLC control and management, building automation, and healthcare automation systems, measuring instruments and environmental dynamic monitoring systems, etc. Can be used in many embedded network control applications:

- Industrial automation production
- Security access control: network access control, alarm equipment, infrared detection alarm, remote card reader
- Smart home equipment: smart home gateway, smart socket, smart switch
- Network IO Controller: Industrial Remote IO Input, Remote Relay Control
- Building intelligence and energy monitoring
- Medical monitoring equipment

FEATURES: -

- Adopt ARM Cortex-M4, main frequency 192MHz processor;
- Support 1 channel Fast Ethernet; Ethernet supports 10/100Base-T(X) adaptive Ethernet interface; supports auto-negotiation (Auto-Nego Full half duplex), supports automatic cross-wire detection (MDI/MDIX);
- Provide 1 channel AT-NP301 serial port, support 300bps-921600bps line speed non-blocking communication, support automatic baud rate scan matching and customer-defined baud rate;
- The serial data interface conforms to the relevant standards of AT-P301 There are three kinds of interfaces, and different bus modes can be set by dialing the code;
- Serial interface supports optical fiber interface, supports 1310nm single mode, 1310nm multimode, 850nm multimode, ST/FC/SC optional;
- Support Modbus TCP, TCP Server, TCP Client, UDP Server, UDP Client, and other working modes;
- Complete the transparent conversion from Modbus-RTU to Modbus-TCP, and realize the loading of serial device data through the network;
- Support serial port status and serial port parameter monitoring, the communication status is clear at a glance;
- Support cross-gateway and cross-route communication; support virtual serial port drive access mode and automatic connection recovery function after network interruption;
- Flexible serial port data framing settings to meet various subcontracting needs of users;
- Support standard TCP/IP SOCKET application access, TCP supports multi-connection, to meet the requirements of less than 4 users to monitor or manage serial devices at the same time;
- In UDP mode, it supports single-machine or multi-machine communication, which can satisfy multiple users to monitor or manage serial devices at the same time;
- Support Windows configuration tool, serial port and WEB and other configuration forms, support SNMP network management;
- Support local and remote system firmware upgrade;
- When dual DC power supply (5.08 terminal block):
- It can be powered by DC9-55V or AC7-50V wide-range power supply, the power supply has the function of automatic polarity detection, and there is no need to distinguish between positive and negative poles during installation;
- Support internal isolation, redundant dual power input; anti-reverse protection
- When AC power supply (Cross style AC sockets):
- Support AC~85-265V AC, or DC110-300V DC wide-range input
- The power supply supports overload protection; it meets the requirements of industrial four-level electromagnetic compatibility; super lightning protection function: lightning protection, anti-induced high voltage, anti-surge, etc.;
- No fan for efficient heat dissipation, reducing repair time;
- Anodized aluminum alloy shell, IP40 protection grade, can withstand the test of harsh environment;
- Rail or wall mounting;
- Wide temperature type: working temperature -40℃~ +85℃; All models are 100% oven tested;

Serial Interface

Standard

EIA/TIA-232 RS-232 (ITU-T V.28)
EIA/TIA-422 RS-422 (ITU-T V.11)
EIA/TIA-485 RS-485 (ISO/IEC8284)

Serial interface

RS-422: TxD+ TxD- RxD+ RxD-
RS-485 4 wires: TxD+ TxD- RxD+ RxD- RS-
485 2 wires: A (TX+) B (TX-) Ground RS-
232:

Terminal: RXD TXD GND

DB9 (male): RXD TXD GND, CTS, RTS

Ethernet Interface (10/100M)

Agreement	IEEE 802.3, IEEE 802.1q (VLAN)
Speed Rate	10/100m self-adaptive, full/half duplex fully self-adaptive
MAC address table	can learn 4096 MAC addresses
Physical Interface	RJ45, support Auto-MDIX

WORKING ENVIRONMENT

Working Temperature	-40℃ -- +85℃
Storage Temperature	-40℃ - +85℃
Working Humidity	0% -- 95% (no condensation)

SPECIFICATION:

Model Number:	AT-NP301 (Industrial)
Product Function Description	Transmit 1 channel RS232/422/485 serial port on Ethernet, industrial rail type
Service Port Description	1*RS232/422/485 serial terminal interface, 1*DB9 male port, 1*Fast Ethernet port

Power Supply	**DC power supply:** Redundant dual power input DC9-70V or AC7-50V, power consumption <5W Overload protection: support; reverse polarity protection: support; redundancy protection: support Access terminal: 4-core 5.08mm pitch plug-in terminal **AC built-in power supply:** AC~85-265V AC, or DC110-300V DC wide range input, power consumption <5W Overload protection: support; Access interface: AC Cross style sockets
Product Size	(110mm(L) x 86mm(W) x 40.5mm(H)) Installation method: rail installation, wall-mounted installation
Weight	0.495KG/PCS

ORDERING INFORMATION: -

Anda Telecom Pvt. Ltd. **Registered Office: E38, Sec 06** **GB Nagar, Noida** **Uttar Pradesh-201301, India.**	🌐 https://andatelecom.com/ ☎ **+91 11 41323629, +91 9871650366** ✉ info@andatelecom.com