NPM301

1-way Embedded Serial Device Server Module

Features

◎ Support 32-bit ARM processor

◎ Adopt 10/100M self-adaptive Ethernet interface

◎ Support AUTO MDI/MDIX, crossover cable or straight-through cable connection optional

◎ Support 300bps-115200bps non-blocking communication

◎ Support low power consumption mode and high performance mode

◎ Support TCP, UDP, ARP, ICMP, DHCP and DNS protocols

◎ Support TCP Server, TCP Client, TCP Auto, UDP and Real COM driver working modes

◎ Support cross-gateway and cross-router communication

◎ Support standard TCP/IP SOCKET application access

◎ Support virtual serial port driver access mode and automatic recovery of network

◎ Provide Windows configuration tools that are easy-to-use and can be used in mass installation

◎ Support AT command and WEB configuration modes
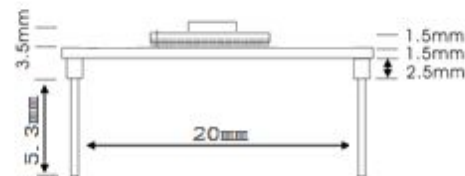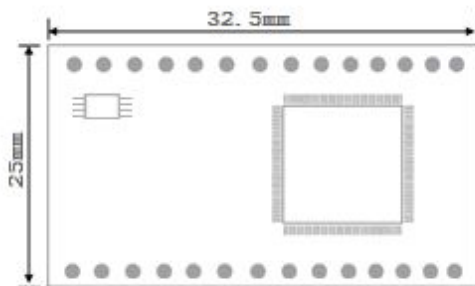
◎ Low consumption design

◎ Working temperature -40～75℃

Introduction

NPM301 is high-performance industrial embedded module that allows users to convert serial port to Ethernet port, which can satisfy various common requirements of users for power consumption, temperature, size and processing ability under complex environment.

The compact size makes it possible to be embedded in all industrial control equipment, and provide non-blocking serial communication. The rich GPIO resources give you more flexible space for developing functions that satisfy customer's diversified requirements.

Dimension

Unit (mm)

Specification

System Information

32-bit ARM processor

LAN

Standard: 10Base-T/100Base-TX

Protocol: TCP, UDP, ARP, ICMP, DHCP and DNS

Rate: 10/100M

Working mode: full or half duplex

Work pattern: TCP Server, TCP Client, TCP Auto, UDP and Real COM driver under low power consumption and high performance modes

Serial Port

Interface: support TXD, RXD, RTS, CTS, DTR, and DSR signals, and 4 sessions

Parity bit: None, Even, Odd, Space, Mark

Data bit: 5bit, 6bit, 7bit, 8bit

Stop bit: 1bit, 2bit

Baud rate: 300bps~115200bps

Flow control: support RTS/CTS flow control or no flow control

Software

Configuration: WEB browser, Windows HyperTerminal, BlueEyes_II

management software, virtual serial port driver

Power Supply

Power input: 3.3VDC

   Low power mode

No-load power: 0.2442W@3.3VDC

Full-load power: 0.2409W@3.3VDC

   High performance mode

No-load power: 0.4092W@3.3VDC

Full-load power: 0.4092W@3.3VDC

Working Environment

Working temperature: -40~75℃

Storage temperature: -40~85℃

Humidity: 5%~95% (no condensation)

Physical Characteristics

Size (H*W*D): 32.5mm×25.0mm×8.5mm

                  (Including pin) upper 14 pins, lower 14 pins

Weight: 50g

Warranty

Warranty period: 5 years

Ordering Information

NPM301 1-way Serial Device Server Module