

ANY3821-AUTBUS/SPI Serial Transfer Module

Overview



ANY3821 module is an AUTBUS/SPI serial converter module developed based on AUTBUS chip KY3001LR, which is mainly used for devices with SPI and serial interface type to access to AUTBUS bus network. It can be widely used in intelligent transportation, intelligent city, intelligent factory, rail transportation, electric power, metallurgy, chemical industry, petroleum, light industry and other industries. The product is safe, reliable and easy to install.

ANY3821 module provides 3 connectors, except 1 connector for debugging and upgrading, the other 2 connectors are assigned as follows: 7PIN connector is assigned with 1 UART interface, 1 SUART interface, 11PIN connector is assigned with 1 AUTBUS interface, 1 SPI interface, 1 UART interface, 1 wide-voltage DC power supply interface, and 1 interrupt input pin. The 11PIN connector has 1 AUTBUS interface, 1 SPI interface, 1 UART interface, 1 wide voltage DC power supply interface, and 1 interrupt input pin.

Key Features

AUTBUS Interface and Features

- 1 AUTBUS interface
- Interface type: AUTBUS connector
- Bandwidth: 100Mbps/500 meters (CAT5)
- Cable Requirement: Shielded Twisted Pair, Characteristic Impedance (32MHz) (100±10) Ω
- Parameters Configure: Node ID, communication mode needs to be configured
- Configuration Tool: ATB-Config Tool

SPI Interface and Features

- 1 SPI interface, non Isolate
- Interface Type: 11PIN connector, 6-9pin
- Speed: less than 25Mbps
- Support Application layer protocol customization
- Configuration Tool: ATB-Config Tool

UART Interface and Features

- 2 UART interface, non Isolate
- Interface Type: 11PIN, 7PIN connector to access 1 UART each
- Speed: 115200bps default
- Support Application layer protocol customization
- Configuration Tool: ATB-Config Tool

SUART Interface and Features

- 1 SUART interface, non Isolate
- Interface Type: 7 PIN connector, 2-5PIN
- Speed: 115200bps default

Mechanical Drawing

- Support Application layer protocol customization
- Configuration Tool: ATB-Config Tool

External interrupt input interface and Features

- 1 external interrupt interface, non Isolate
- Interface Type: 11PIN connector 5 pins
- Interrupt input Voltage: 0-3V
- Interrupt signal discrimination thresholds: low (0V-0.7V), high (2.4V-3.3V)
- Configuration Tool: ATB-Config Tool

Power

- Input Voltage: DC 7V-35V
- Consumption: < 2W
- Protection: Support anti-reverse connection, over-voltage, over-current

Constructure

- Weight: <100g
- Dimension: 51mm x 30mm x 15mm

Environmental

- Operating temperature: -40°C ~ 85°C
- Storage temperature: -40°C ~ 85°C
- Humidity: 95% non-condensing
- Altitude: <3500m

Fan

- Fanless

