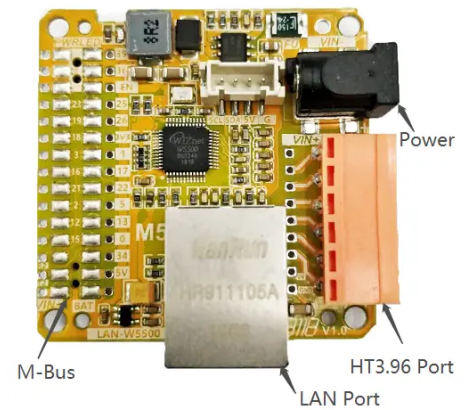


Base LAN

SKU:K012-B



Description

Base LAN is an Ethernet controller base. It is equipped with a **W5500** full hardware TCP/IP embedded Ethernet controller, providing an easier internet connection solution for embedded systems. Designed specifically for industrial application scenarios, it comes with a metal slide rail and magnetic disk for easy installation and mounting, and is equipped with HT3.96 terminals for electrical connections. It can meet the wired network access needs in actual production environments.

Features

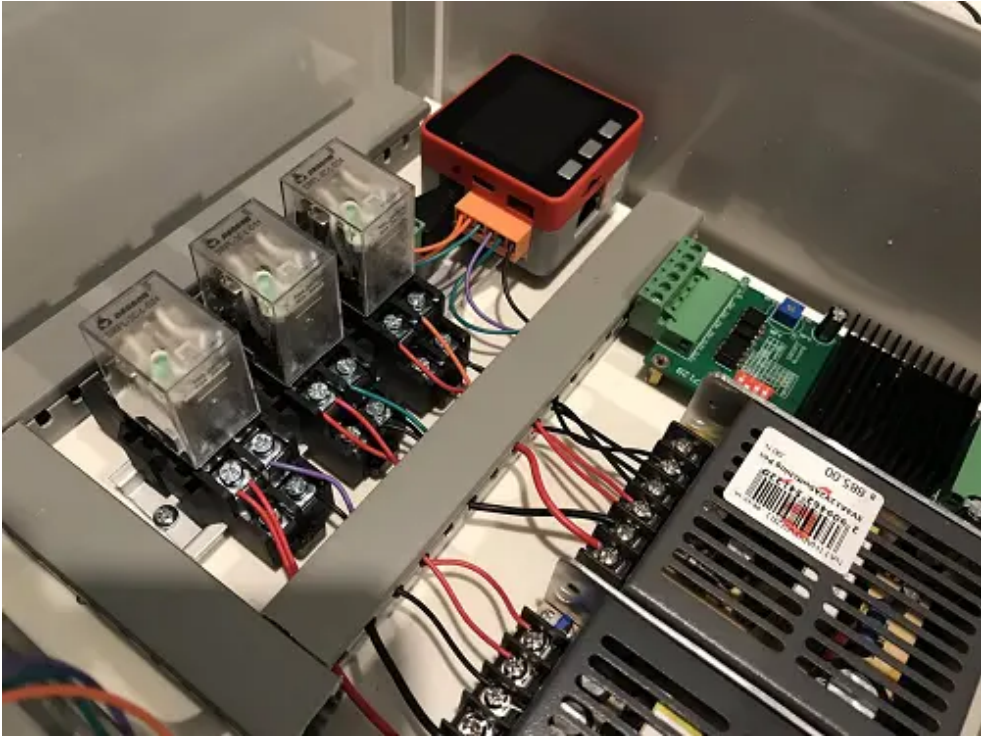
- Input power voltage: 9-24V
- HT3.96 terminal
- Supports RS485 communication
- Simple mounting method

Includes

- 1 x Base LAN
- 1 x TTL-RS485 Adapter Board
- 1 x 20-pin Header
- 1 x Metal Rail and Magnetic Disk
- 3 x HT3.96 Terminals
- 2 x 3-pin
- 1 x 4-pin
- 10 x Cold-pressed Terminals
- 3 x Hex Key L-Shape
 - 1 x 1.5mm
 - 1 x 2mm
 - 1 x 2.5mm
- 2 x M3x28 Hex Screws
- 4 x KA2x4 Hex Self-tapping Screws
- 1 x M3x8 Countersunk Screw

Applications

- o M5Core + LAN to enable transmission with controller



- o PC to Core wired transmission of video data



Specifications

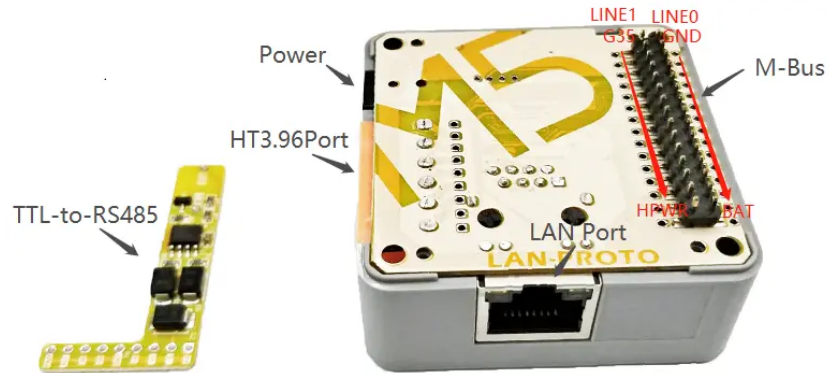
Specification	Parameter
Product Weight	32g
Gross Weight	132g
Product Size	54 x 54 x 28mm
Package Size	105 x 65 x 40mm

Learn

HT3.96 connector's 6 pins are floating by default, and you can connect them to any pins of the M5-Bus as needed.

The diagram below shows the internal structure of LAN

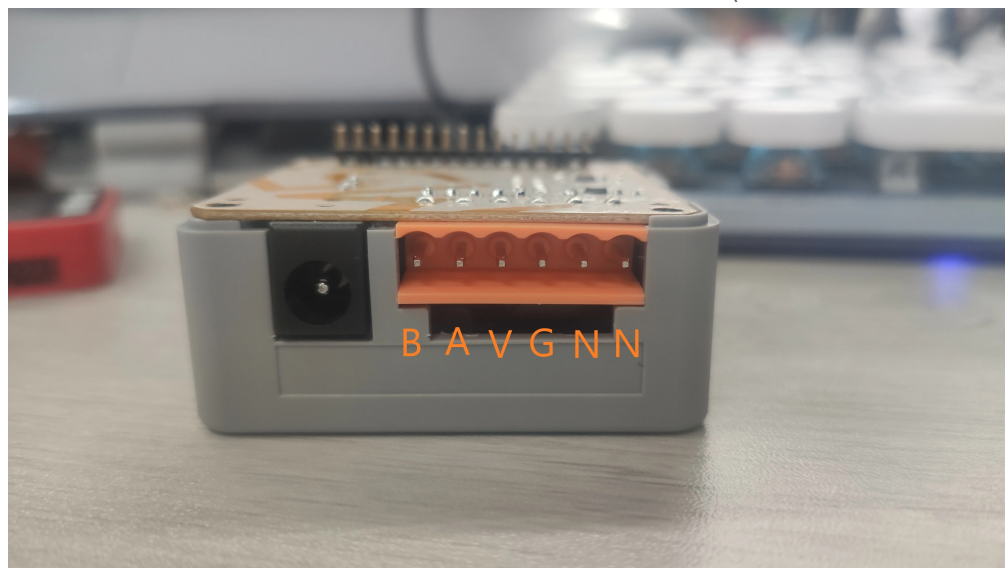
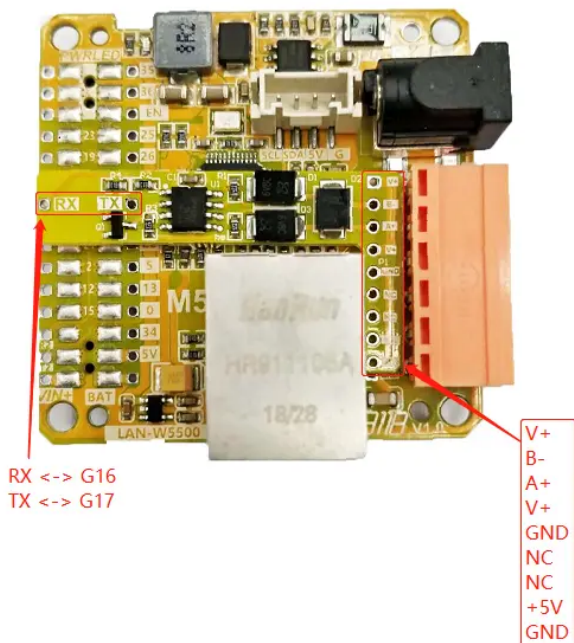
If you need to add an RS485 communication interface, solder the TTL-RS485 adapter board and the matching header pins to the corresponding pins on the mainboard.



TTL-RS485 Adapter Board with LAN Base

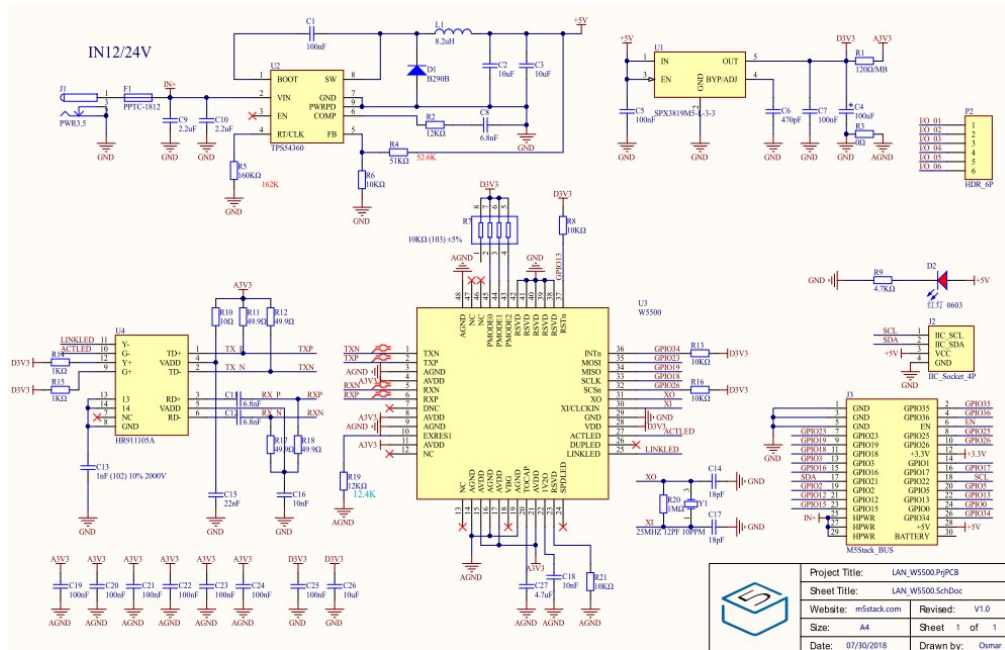
Connection diagram of TTL-RS485 Adapter Board with LAN Base

The serial port pins of the TTL-RS485 adapter board will connect to the LAN base's G16 and G17.\



Schematics

- Base LAN Schematics PDF



PinMap

W5500 Ethernet Chip

W5500	ESP32 Chip
MOSI	G23
MISO	G19
CLK	G18
CS	G26
RST	G13
INTn	G34

M5-Bus

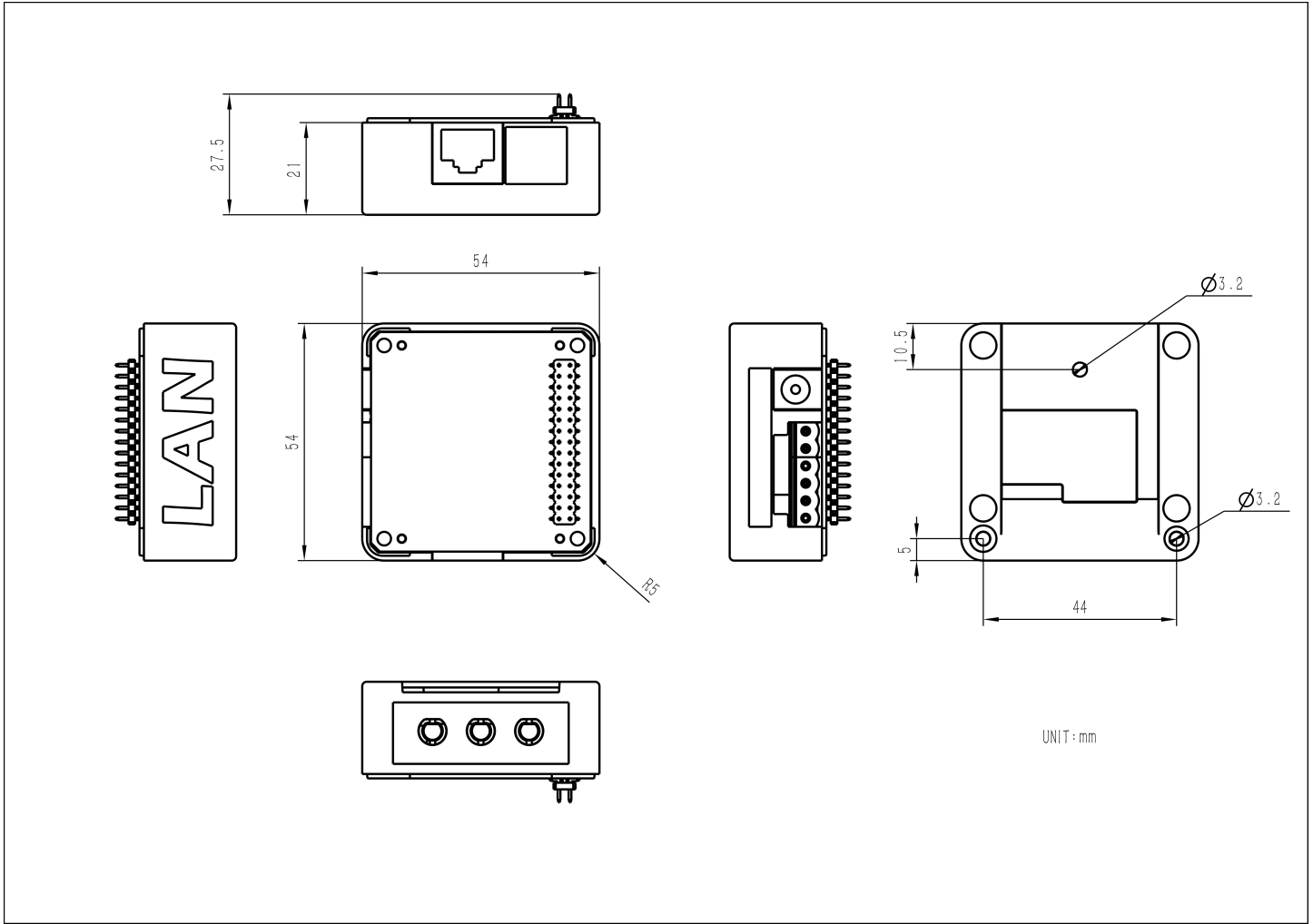
Switch

The pins marked **SW** in the following M5-Bus can be switched via the DIP switch to adapt to different controllers.

PIN	LEFT	RIGHT	PIN
GND	1	2	NC
GND	3	4	NC
GND	5	6	NC
SPI_MOSI	7	8	NC
SPI_MISO	9	10	CS
SPI_CLK	11	12	NC
NC	13	14	NC
NC	15	16	NC
NC	17	18	NC
NC	19	20	RS232_TX/RS485_TX (SW)
NC	21	22	RST
RS232_RX/RS485_RX (SW)	23	24	NC
HPWR	25	26	INT
HPWR	27	28	5V
HPWR	29	30	BAT

Model Size

- [Base LAN Model Size PDF](#)



Datasheets

- [W5500](#)

Softwares

Arduino

- [Base LAN Web Server Example](#)
- [Base LAN RS485 Example](#)

UiFlow1

- [Base LAN UiFlow1 Docs](#)

EasyLoader

Easyloader	Download	Note
Base LAN Test Easyloader	download	/

Video

Base LAN Case - PC using UDP protocol with LAN Base for wired video transmission to Core\

