GT100-IE-MPI

MPI / Industrial Ethernet Gateway

Product Overview

The GT100-IE-MPI is a gateway which is used for Ethernet communication of Siemens SIMATIC S7 series PLC (including S7-200, S7-300, S7-400), Siemens CNC machine tool (840D, 840DSL, etc). It supports Ethernet programming download, data monitoring, etc.

Features and Benefits

● Supports multi-master communication, the expansion port can be connected to touch screen or other masters.

● Baud rate adaptive.

● Automatically query the master station address and display the address list.

● Supports Siemens S7 Ethernet communication drivers, including MicroWIN, STEP7, WinCC, SIMATIC NET, KEPServerEX, etc .
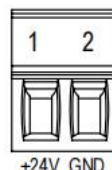
S7 Bus Male interface

Pin	Function
2	GND of 24VDC
3	RS485, B
5	GND
7	24VDC
8	RS485, A
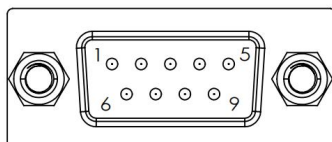
Power interface

The power interface is optional as the gateway can get power through the S7 bus interface:

| Pin	Function
1	+24V
2	GND

Ethernet interface

The Ethernet interface uses an RJ-45 connector. Its pin (standard Ethernet signal) is defined as below:
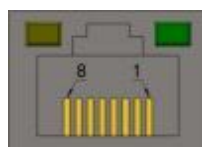
Pin	Description
S1	TXD+, Transmit Data+
S2	TXD-,Transmit Data-
S3	RXD+, Receive Data+
S4	Bi-directional Data+
S5	Bi-directional Data-
S6	RXD-, Receive Data-
S7	Bi-directional Data+
S8	Bi-directional Data-

S7 Bus Female interface

Pin	Function
2	GND of 24VDC
3	RS485, B
5	GND
7	24VDC
8	RS485, A

S7 Bus Female interface

Reset button

Power interface

Ethernet interface

Indicators

S7 Bus Male interface
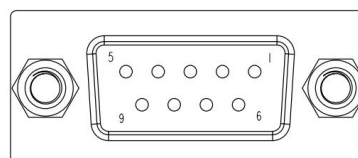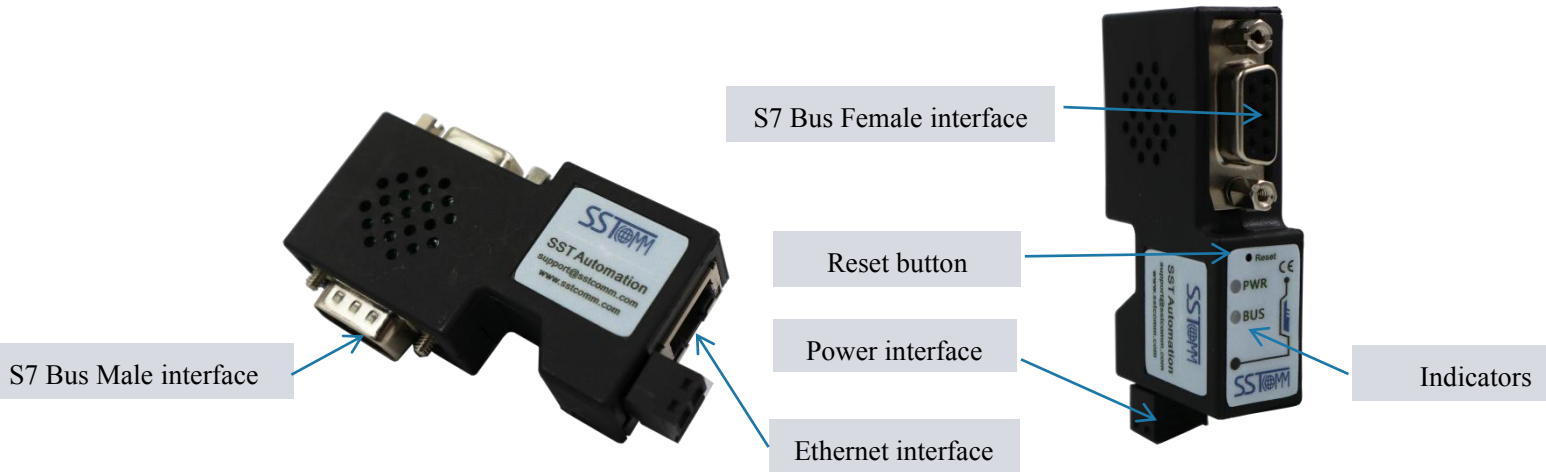
Technical Specifications

[1] DB9 communication port:
   ◆ Interface type: TIA/EIA RS-485 compatible, ESD: ±15KV, up to 32 nodes.
   ◆ Protocol supported: Siemens S7 bus multi-master protocol, supports PPI, MPI and PROFIBUS.
   ◆ Baud rate (bps): 9600, 19200, 45450, 93750, 187500, 500K, 1.5M.
[2] Ethernet port:
   ◆ Network port type: a 10M/100M adaptive network port.
   ◆ Protocol supported: S7TCP, 16 TCP/IP connections.
[3] Power: 24 VDC (11~30 VDC), 100mA(24VDC).
[4] Operating temperature: 32℉~140℉(0℃ ~ 60℃). Humidity: 5%~90% (non-condensing).
[5] Dimensions (W*H*D): 0.67 in *2.56 in *1.29 in (17mm*65mm*33mm).
[6] Installation: Siemens S7 PLC DB9 communication port plug.
[7] Protection Level: IP20.

Indicators

Indicator	State	State description	Troubleshooting
PWR	ON	Supply of power is normal	N/A
	OFF, Blinking	Supply of power is abnormal	Check the power supply
BUS	ON	The baud rate is correct and the gateway is functioning normally	N/A
	Blinking (for 1 seconds)	The same station address exists on the S7 bus	Modify the station address of the module through the web page
	Blinks twice at 1Hz after a few seconds interval	Baud rate is not detected	Check the PLC communication port
	OFF	Gateway or indicator failure	Contact technical support
	Blinking	Communication response frequency	N/A