

## Product Overview

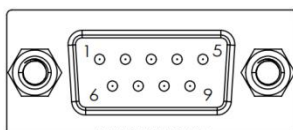
The GT100-IE-MPI is an adapter which is used for Ethernet communication of Siemens SIMATIC S7 series PLC (including S7-200, S7-300, S7-400), Siemens CNC (840D, 840DSL, etc). It supports data monitoring.

## 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 STEP7, WinCC, KEPServerEX, etc .
- Supports the connection to Node-Red.

## S7 Bus Male interface

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



## Power Interface

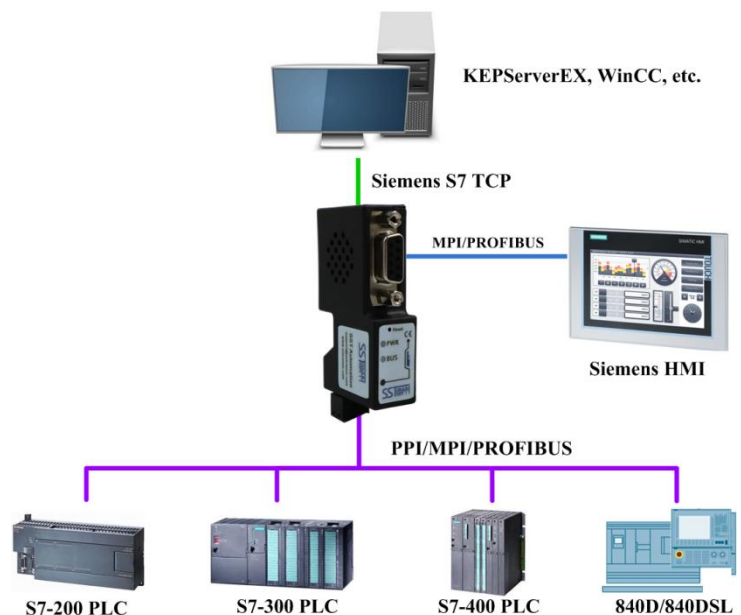
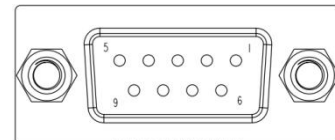
The power interface is optional as the adapter can get power through the S7 bus interface:

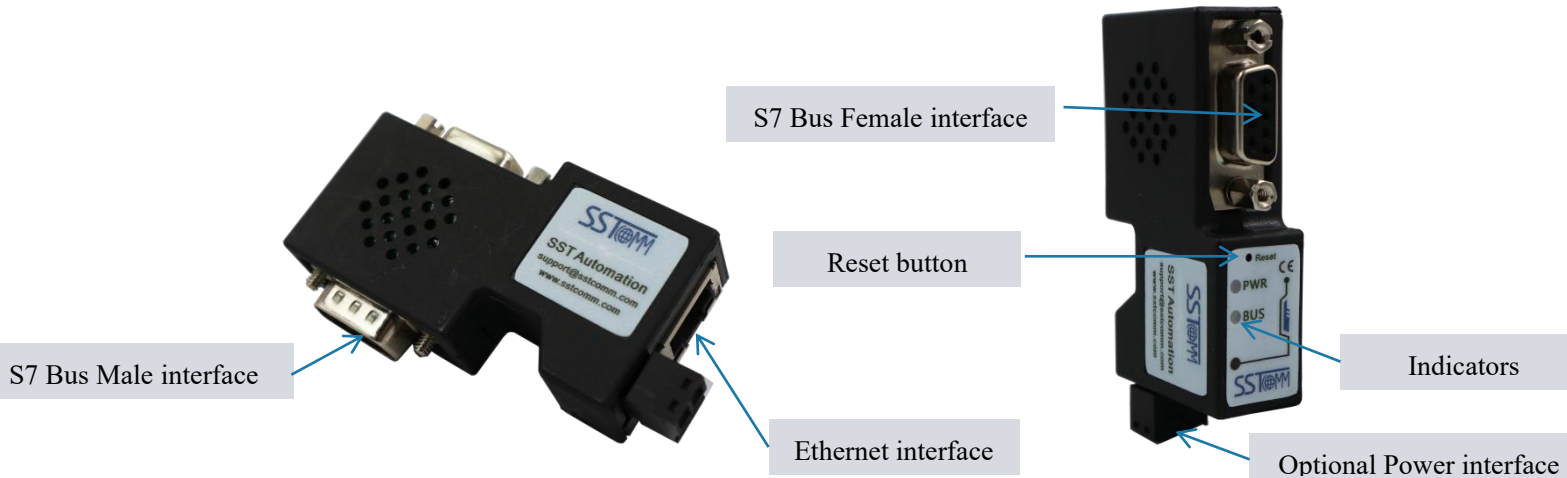


Pin	Function
1	+24V
2	GND

## S7 Bus Female Interface

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





### 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), Modbus TCP Server.
- [3] Power: 24 VDC (11~30 VDC), 100mA(24VDC).
- [4] Operating temperature: 32°F~140°F(0°C ~ 60°C). 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, Flashing	Supply of power is abnormal	Check the power supply
BUS	ON	The baud rate is correct and the adapter is functioning normally	N/A
	Flashing (for 1 seconds)	The same station address exists on the S7 bus	Modify the station address of the module through the web page
	Flashes twice at 1Hz after a few seconds interval	Baud rate is not detected	Check the PLC communication port
	OFF	Adapter or indicator failure	Contact technical support
	Flashing	Communication response frequency	N/A