

Product Overview

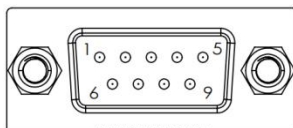
The GT100-IE-MPI is an Ethernet adapter designed for Siemens SIMATIC SIMATIC S7 series PLCs (including S7-200, S7-300, and S7-400) and Siemens CNCs (840D, 840DSL, etc). It enables real-time data monitoring.

Features and Benefits

- Supports multi-master communication; the expansion port supports HMIs or other master devices.
- Auto-adaptive baud rate.
- Automatic master station discovery and address listing.
- Compatible with Siemens S7 Ethernet communication drivers, including Kepware Server, WinCC, STEP7, etc.
- Supports Node-RED integration.

S7 Bus Male interface

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



Power Interface

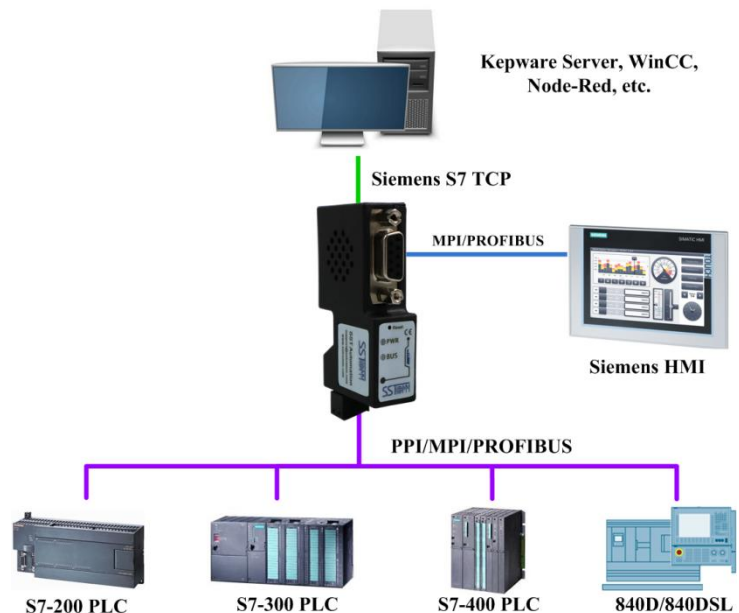
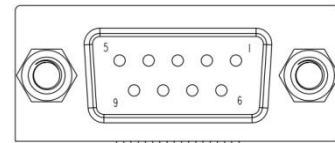
External power input is optional, as the adapter can be powered directly via the S7 bus interface:

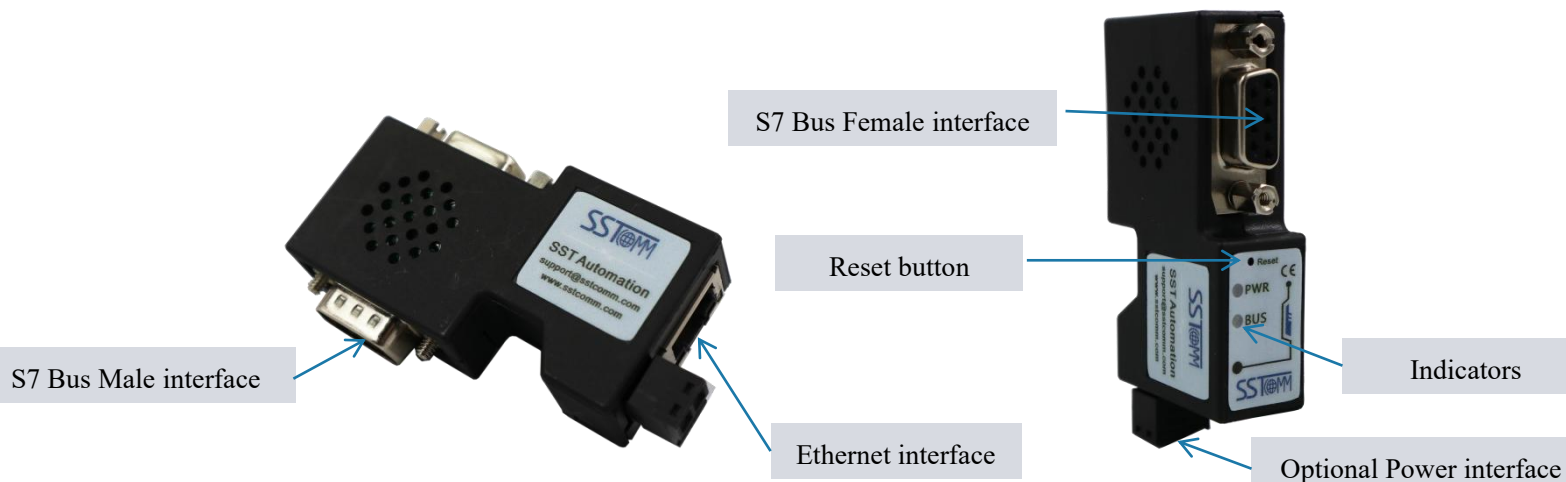


Pin	Function
1	+24V
2	GND

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: $\pm 15\text{KV}$, up to 32 nodes.
 - ◆ Supported Protocols: 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: 10/100 Mbps auto-sensing 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): 0.69 in *2.63 in *1.63 in (18mm*67mm*41mm).
- [6] Installation: Direct plug-in to Siemens S7 PLC DB9 port.
- [7] Protection Level: IP20.

Indicators

Indicator	State	State description	Troubleshooting
PWR	ON	Power supply normal	N/A
	OFF, Flashing	Power supply abnormal	Check the power supply
BUS	ON	The baud rate is correct and the adapter is functioning normally	N/A
	Flashing (for 1 seconds)	Station address conflict detected on the S7 bus	Reconfigure the module's station address via the web interface
	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