



## GT300-MT-EC

Modbus TCP/ EtherCAT Gateway

### Introduction

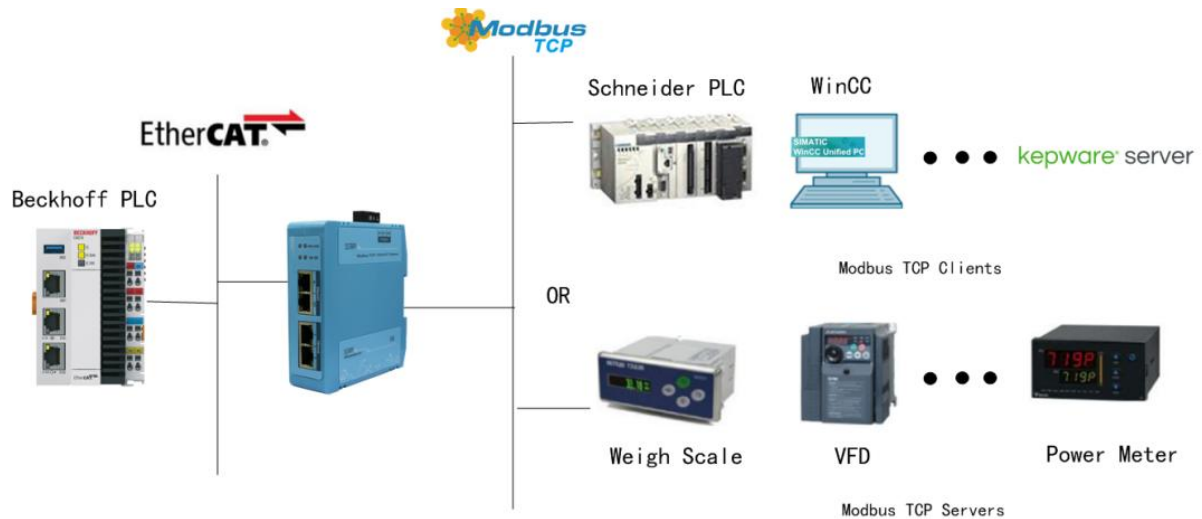
The GT300-MT-EC is a communication gateway designed to bridge Modbus TCP and EtherCAT networks, enabling Modbus TCP clients or servers to connect seamlessly to an EtherCAT network. It facilitates secure connections and highly efficient data exchange between Modbus TCP devices and EtherCAT Master PLCs or control systems, including those manufactured by Beckhoff, Omron, and HollySys.

### Technical Specifications

| EtherCAT                             |                                                     |
|--------------------------------------|-----------------------------------------------------|
| Protocol Type                        | EtherCAT Slave                                      |
| Max. Data Capacity                   | Supports 512 bytes input and 512 bytes output       |
| Connected Device Type                | Supports daisy-chaining with other EtherCAT Slaves  |
| Synchronization Type                 | FreeRun                                             |
| Protocol Support                     | Supports CoE mailbox service, compliant with CiA301 |
| Modbus TCP Master                    |                                                     |
| Protocol Type                        | Modbus TCP Client                                   |
| Port Number                          | Supports custom port configuration                  |
| Max Slave Connections                | 4                                                   |
| Modbus Function Codes                | 01H, 02H, 03H, 04H, 05H, 06H, 0FH, 10H, 17H         |
| Modbus TCP Slave                     |                                                     |
| Protocol Type                        | Modbus TCP Server                                   |
| Max Client Connections               | 4 connections                                       |
| Modbus Function Codes                | 01H, 02H, 03H, 04H, 05H, 06H, 0FH, 10H, 17H         |
| Power Supply / Operating Environment |                                                     |
| Power Supply                         | Isolated power supply, 24VDC (9 - 30VDC)            |
| Temperature / Humidity               | -40°C - 70°C; 5% - 95% (non-condensing)             |
| Dimensions / Installation            |                                                     |
| Dimensions (W x H x D)               | 1.3 x 4.6 x 4.1 in<br>34 x 116 x 105 mm             |
| Mounting                             | 35mm (1.4in) DIN Rail                               |
| Ethernet Port                        | 10/100 Base-T, RJ45 Connector                       |
| Power Interface                      | 5.08mm 3-pin terminal block, RS485                  |

## Use Case

In industrial automation projects, the GT300-MT-EC provides an easy solution for integrating various Modbus TCP devices or clients into an EtherCAT network. It allows higher-level client applications (such as Schneider Electric PLCs, WinCC SCADA, and KEPServerEX) or field-level slave devices (such as VFDs, power meters, and weighing indicators) to connect to an EtherCAT Master PLC or control architecture.



## Dimensions

Unit: Inch (mm)

