



PN/ModbusTCP Coupler

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- Very compact design for top hat rail mounting
- Redundant power supplies
- Galvanic isolation of the networks
- Up to 1024 Byte input/output data
- 300 configurable slots for PROFINET IO data
- Supports the full ModbusTCP address space with free assignment of IO data
- Supports multiple simultaneous ModbusTCP clients
- Configuration just with GSDML file, no additional software required
- MQTT Publisher on both network sides (PROFINET & ModbusTCP)

Simple and uncomplicated connection of a PROFINET network with a ModbusTCP network is possible with the PN/ModbusTCP Coupler. The PN/ModbusTCP Coupler enables data transmission between a PROFINET controller and ModbusTCP participants. Received input data on one of the network sides is made available as output data to the other network side. The IO data transfer takes place live and as quickly as possible without additional handling blocks.

The maximum size of the transmitted data is 1024 bytes input/output data. Up to 300 slots for I/O modules are available via which the PROFINET data can be connected to the ModbusTCP coils, inputs and registers as required. The full ModbusTCP address space of 65536 coils, inputs and registers is supported.

The integration into the PLC engineering tool is made possible by a GSDML file; special configuration software isn't necessary.

In addition to the PROFINET/ModbusTCP communication, the PN/ModbusTCP Coupler also makes an MQTT Publisher available on both network sides. In this way, the values exchanged via the gateway can also be distributed via MQTT to visualization or operating data recording systems.

Technical specifications

| General information | |
|---------------------|--|
| Order number | 700-159-3MB01 |
| Article name | PN/ModbusTCP Coupler |
| Scope of delivery | PN/ModbusTCP Coupler incl. Quick Start Guide |
| Dimensions (DxWxH) | 32.5 x 58.5 x 76 mm |
| Weight | Approx. 135 g |
| PROFINET interface | |
| Number | 1 with 2 ports |
| Protocol | PROFINET IO as defined in IEC 61158-6-10 |
| Transmission rate | 100 Mbps full duplex |
| I/O image size | max. 1024 bytes of input and output data |
| Connection | 2 x RJ45 |
| integrated switch | Yes |

| | |
|-----------------------------------|--|
| Features | Media redundancy (MRP), automatic addressing, topology detection (LLDP, DCP), diagnosis alarms |
| ModbusTCP interface | |
| Number | 1 with 2 ports |
| Protocol | ModbusTCP server |
| Transmission rate | 10/100 Mbps full duplex |
| I/O image size | 65536 coil bits, 65536 discrete input bits, 65536 input register, 65536 holding register |
| Connection | 2x RJ45 |
| integrated switch | Yes |
| Supports Modbus function codes | 1, 2, 3, 4, 5, 6, 15, 22, 23 |
| Status indicator | 9 LEDs function status, 8 LEDs Ethernet status |
| Voltage supply | |
| Voltage supply | 24 V DC (18 - 28 V DC) |
| Current draw | max. 210 mA |
| Ambient conditions | |
| Ambient temperature | 0 °C to 60 °C |
| Transport and storage temperature | -20 °C to 80 °C |
| Protection rating | IP 20 |
| Certifications | CE |
| CE | |
| RoHS | Yes |
| REACH | Yes |