

netTAP 151 CC-Link IE Field Coupler

Gateway CC-Link IE Field Slave to PROFINET IO-Device

- Less than 10ms data processing time between the two networks
- Over 1400 cyclic input and output data in each direction
- 257 further data buffers to exchange acyclic information
- According to official CC-Link IE Field/PROFINET coupler specification
- Automatic generation of GSDML and CSP+ files



The gateway NT 151-CCIES-RE/PNS provides an easy way to efficiently couple a CC-Link IE Field based control system with a PROFINET based control system and their networks. More than 1400 bytes of cyclic input and output data can be exchanged transparently and quickly between the two networks. Further 257 data buffers with 960 bytes each allow the additional exchange of acyclic data on demand.

The device is configured via a mini USB interface. For an effortless integration into the engineering software of the control systems, the configuration tool converts the configured input and output data into a GSDML and CSP + file for a direct import.

The device's functionality complies with the official specification „CC-Link IE Field / PROFINET Network Coupler“ originated from a collaboration between the organizations CC-Link Partner Association (CLPA) and PROFIBUS & PROFINET International (PI). It is the first device in the world working in accordance to this specification.

CC-Link IE is a recognized technology in the Asian market, whereas PROFINET is in Europe and others. The transparent gateway allows plants and assets that are primarily based on either the two network technologies now to be offered internationally without further development effort.

Technical Data / Product Overview

| Technical Data | Parameter | Value |
|----------------|--------------------------------------|---|
| | Service Interface | Mini USB |
| | Displays | LED SYS, RUN, ERR, APL, protocol specific |
| | Configuration | SYCON.net, Windows® 10 |
| | Power Supply | 18 ... 30 V / 180 mA @ 24V |
| | Connector | Mini-COMBICON 5-pin |
| | Operating temperature | -25 °C .. +60 °C |
| | Dimensions (L x W x H) | 99 x 22,5 x 114,5 mm (without connector) |
| | Mounting | DIN-Rail, DIN EN 60715 |
| | Weight | 125 g |
| | CE Sign | yes |
| | Emission | IEC 61000-6-4:2006 + A1:2010 |
| | Noise Immunity | IEC 61000-6-2:2005 |
| Card Slot | SD card, for data backup and restore | |

| Data direction | Data quantity |
|--|----------------------|
| PROFINET to CC-Link IE Field | 1428 Bytes cyclic |
| CC-Link IE Field to PROFINET | 1432 Bytes cyclic |
| Message buffer PROFINET to CC-Link IE Field | 960 Bytes acyclic |
| Message buffer CC-Link IE Field to PROFINET | 960 Bytes acyclic |
| 256 user-definable data buffers, bidirectional | 960 Bytes per buffer |

Note: Technical data may be changed without further notice.

| Overview | Product Name | Part Number | Brief Description |
|----------|---------------------|--------------|---|
| | NT 151-CCIES-RE/PNS | 1724.122/PNS | Coupler netTAP 151 CC-Link IE Field Slave to PROFINET IO-Device |
| | SD card | 1719.003 | SD card to realize the backup and restore functions |

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