Ethernet to MPI/DP/PPI Converter for SIMATIC S7®

Highlights

- Parallel communication to 32 PLCs with up to 16 TCP connections
- Direct PLC to PLC communication, also as projected connection
- For all S7 Engineering Tools inclusive TIA Portal
- Web based configuration, protocol support of RFC1006 and DHCP
- Full access to PROFIBUS diagnostics and services in STEP7®
- Automatic DP/MPI baud rate detection

As directly mountable or as firmly attachable DIN rail mountable device the adaptors netLINK- and netTAP-MPI are replacing expensive CP communications processors and allow the programming, visualization and control of S7-200®, S7-300® or S7-400® PLCs over Ethernet.

The provided driver integrates into all well-known SIMATIC S7® engineering tools like STEP7® or TIA portal as PG/PC programming interface. The device is setup within the engineering tool or with conventional web browsers over the integrated web configuration pages.

The adaptors are suitable to program or change S7-PLC control programs and may serve to engineer HMI devices with the visualization software WinCC. By supporting the „ISO on TCP“ RFC1006 Ethernet protocol any third party or SIMATIC® visualization stations can be coupled to the PLC. Once integrated into the office or plant network and connected to the internet also remote maintenance and logging over a router is possible since plain TCP/IP protocol access mechanisms are used.

Organized in a network direct communication between two or several PLCs over Ethernet can be realized. Even a coupling of PLCs with no own Ethernet port is possible using two adapters in conjunction. Featuring full PROFIBUS diagnostics and Master Class 2 DPV1 services enables unrestricted DP Slave device configuration and parameterization in STEP7®.

Power is supplied by a 24 V DC. If supported by the S7 PLC the netLINK-MPI adaptor may be powered over the DSUB9 connector alternatively and its extra feed-through DSUB9 connector allows the connection of further devices to the same MPI/DP network.
### Technical Data
#### Product Overview

<table>
<thead>
<tr>
<th>Article Description</th>
<th>Article No.</th>
<th>Article</th>
</tr>
</thead>
<tbody>
<tr>
<td>NL 50-MPI</td>
<td>1701.430</td>
<td>netLINK-MPI, SIMATIC S7 Programming adaptor</td>
</tr>
<tr>
<td>NT 50-MPI</td>
<td>1758.111</td>
<td>netTAP-MPI, SIMATIC S7 Programming adaptor DIN rail mountable</td>
</tr>
</tbody>
</table>

#### Technical Data

**netLINK-MPI**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>netX 50</td>
</tr>
<tr>
<td>Power supply</td>
<td>18 … 30 V / ca. 60 mA @ 24 V</td>
</tr>
<tr>
<td>Supply</td>
<td>Mini-COMBICON 3.81mm 2-pole or via S7 DSub-9 MPI/PROFIBUS</td>
</tr>
<tr>
<td>Interfaces</td>
<td>Fast Ethernet 10/100 BASE-TX, MPI/PROFIBUS 12 Mbaud IEC 61158</td>
</tr>
<tr>
<td>LEDs</td>
<td>SYS, COM, ACT, LNK</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>0°C … +55°C</td>
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<tr>
<td>Mass (L x W x H)</td>
<td>65 mm x 48 mm x 16 mm</td>
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<tr>
<td>Weight</td>
<td>ca. 40 g</td>
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<tr>
<td>Emission</td>
<td>CISPR 11 Classe A</td>
</tr>
<tr>
<td>Immunity</td>
<td>EN 61131-2:2003</td>
</tr>
<tr>
<td>Supported PLCs</td>
<td>SIMATIC S7® 200,300,400 CPU/CPs with MPI/PROFIBUS/PPI Interface</td>
</tr>
</tbody>
</table>

**netTAP-MPI**

<table>
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<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>netX 50</td>
</tr>
<tr>
<td>Power supply</td>
<td>18 … 30 V / ca. 130 mA @ 24 V</td>
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<tr>
<td>Supply</td>
<td>Mini-COMBICON 3.81mm 2-pole</td>
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<tr>
<td>Interfaces</td>
<td>Fast Ethernet 10/100 BASE-TX, MPI/PROFIBUS 12 Mbaud IEC 61158</td>
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<tr>
<td>Display</td>
<td>SYS, COM, ACT, LNK</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>0°C … +60°C</td>
</tr>
<tr>
<td>Mass (L x W x H)</td>
<td>100 mm x 52 mm x 70 mm</td>
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<tr>
<td>Weight</td>
<td>ca. 150 g</td>
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<tr>
<td>Emission</td>
<td>CISPR 11 Classe A</td>
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<tr>
<td>Immunity</td>
<td>EN 61131-2:2003</td>
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<tr>
<td>Supported PLCs</td>
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**Note:** All technical data can be altered without notice.

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