Gateways for Ethernet Controlled Networks

Remote control of Industrial networks via Ethernet

- Connecting Industrial Ethernet or Fieldbus networks with legacy TCP/IP host systems
- Gateway acting as controller to the industrial devices
- Comfortable commissioning via the Hilscher toolchain
- SIMATIC S7® programming adapter via TCP/IP network
- Ethernet MPI/DP/PPI Adapter SIMATIC S7®

EtherCAT · PROFINET · PROFIBUS · EtherNet/IP · DeviceNet · CANopen · iSerial

Available formats

	netLINK 50-MPI	netTAP 50-MPI	netHOST
Dimensions (L x W x H)	65 × 48 × 16 mm	100 × 25 × 70 mm*	100 × 25 × 70 mm*
Protection class	IP 20	IP 20	IP 20
Mounting	Plug	DIN 60715 rail	DIN 60715 rail
Memory card	✗	✗	✓
USB Diagnostic port	✗	✗	✓

Note: All technical data may be changed without further notice.
**without connector*

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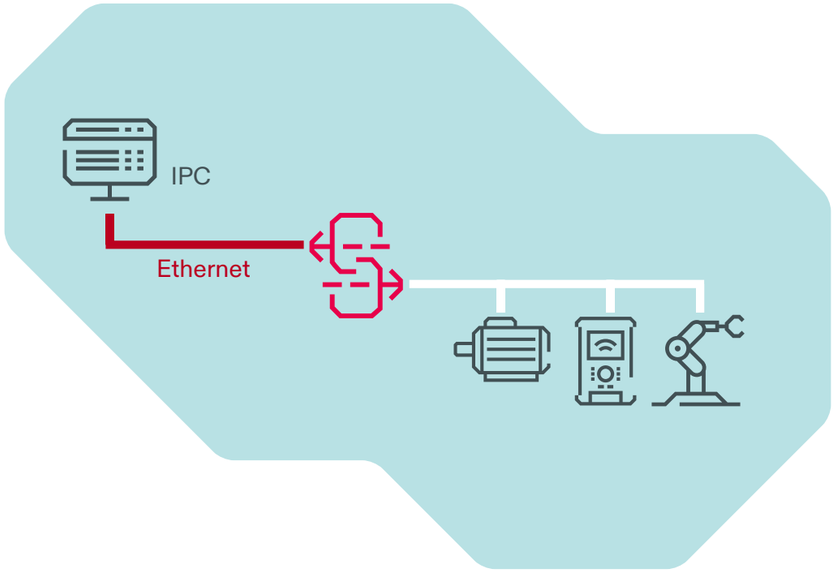
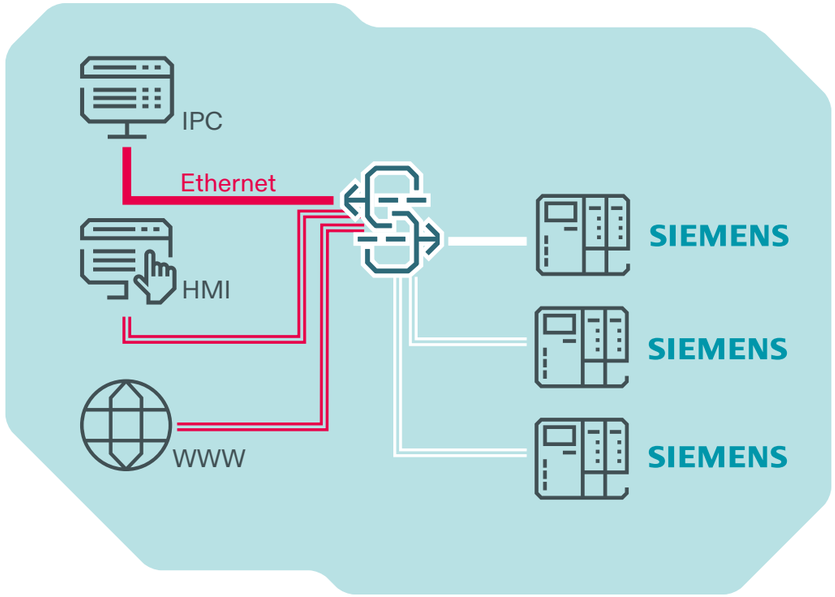
Gateways for Ethernet Controlled Networks

Connecting Industrial networks with legacy TCP/IP host systems



- Autonomously operating fieldbus master with LAN interface to Ethernet host systems
- Support of all major fieldbus and industrial enthernet networks as master
- Same application interface to the Ethernet host system as well-known CIFX PC-Cards

Access to Siemens PLCs from multiple Ethernet host systems



- Programming, visualization of data and control of S7-200®, S7-300® or S7-400® PLCs
- Parallel communication to 32 PLCs with 16 TCP connections
- Web based configuration
  - Support of RFC1006 and DHCP
  - Full access to PROFIBUS diagnostics and services in STEP7®
  - Automatic DP/MPI baud rate detection
- All use cases are supported, from single Device/PLC up to multiple Devices/PLCs

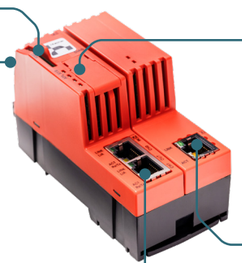
Remote control of Industrial networks

- A simple TCP/IP based transport protocol transfers the services between the host system and the netHOST. For device integration a DLL for Windows and a ‚C' source code for embedded solutions is provided.
- 100 bytes process data inputs and outputs are exchangeable over the LAN network in about one millisecond.
- Two devices can be used to realize redundant applications. Services are provided to execute a controlled switchover in the event one device fails or a line breaks.

Access to Siemens PLCs

- Directly plugged on the SIMATIC S7® or as DIN rail mountable device
- The provided driver integrates into all well-known SIMATIC S7® engineering tools like STEP7® or TIA portal as PG/PC programming interface.
- Full PROFIBUS diagnostics and Master Class 2 DPV1 services enables unrestricted DP Slave device confi guration and parameterization in STEP7®.

NHST 100



SD-Card slot
- » Backup & Restore firmware and configuration

Diagnostic port
- » Mini-USB
- » Protection cover

Status LEDs
- » COM0, COM1
- » System status

Network 2
- » 1-port Ethernet for LAN
- » Fieldbus

Network 1
- » 2-port Industrial Ethernet
- » 2-port Ethernet for LAN

NT 50-MPI

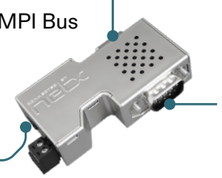
Status LEDs
- » COM0, COM1, RTE network
- » System status

Rotary switches
- » Fieldbus Slave address of the MPI network

Network 1
- » 1-port Ethernet for LAN

Network 2
- » MPI/DP/PPI
- » Connection to MPI Bus and S7

NL 50-MPI



Network 2
- » MPI/DP/PPI
- » Connection to MPI Bus

Network 1
- » 1-port Ethernet for LAN

Network 2
- » MPI/DP/PPI
- » Connection to S7

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Productinformation

Technical data

	netLINK 50-MPI	netTAP 50-MPI	netHOST
Performance Class	Entry class gateway	Entry class gateway	Flexible Gateway
Conversion types	» Ethernet to MPI/DP/PPI	» Ethernet to MPI/DP/PPI	» Ethernet to Fieldbus » Ethernet to Industrial Ethernet
Communication Controller	netX 50	netX 50	netX 100
Power supply	18 ... 30 V DC	18 ... 30 V DC	18 ... 30 V DC
Power consumption	1,8 W	1,8 W	3,2 W
Operating Temperature, Air flow 0,5 m/s	0 °C ... +55 °C	0 °C ... +60 °C	0 °C ... +60 °C
Storage temperature range	-40 °C ... +85 °C	-40 °C ... +85 °C	-40 °C ... +85 °C
Relative humidity	0 % ... 85 % No condensation allowed	10 % ... 95 % No condensation allowed	10 % ... 95 % No condensation allowed
CE / UKCA	✓	✓	✓
UL	✗	✗	✓ (E334100)
RoHS	✓	✓	✓
Interfaces	Fast Ethernet 10/100 BASETX MPI/PROFIBUS 12 MBaud	Fast Ethernet 10/100 BASETX MPI/PROFIBUS 12 MBaud	Fast Ethernet 10/100 BASETX 2 x RJ45 DSub DE9 connector COMBICON 5 pin USB Mini-B
Weight	ca. 40 g	ca. 150 g	ca. 150 g
Emission	CISPR 11 Class A	CISPR 11 Class A	CISPR 11 Class A
Immunity	EN 611312:2003	EN 611312:2003	EN 611312:2003

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Gateways for Ethernet Controlled Networks

Product name	Main network	Part number	Protocol number								
			Sub network								
			MPI/DP/PPI	Industrial Ethernet [2]	EtherCAT Master [1]	Ethernet/IP Scanner [1]	PROFINET Controller [1]	CANopen Master [1]	DeviceNet Master [1]	PROFIBUS Master [1]
netLINK 50-MPI	Ethernet TCP/IP	1701.XXX	.430							
netTAP 50-MPI	Ethernet TCP/IP	1758.XXX	.111							
netHOST [3]	Ethernet TCP/IP	1890.XXX		.800	.110	.820	.840	.500	.510	.410

1) Preloaded with protocol firmware
2) Protocol firmware is loaded by customer
3) A Master license is always included

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