

## PROTOCOL CONVERTERS

### Ethernet/Fieldbus, Ethernet/MPI, Serial/Fieldbus

The netTAP gateway family simply and efficiently merges two protocols into each other. Whether it's a simple serial bus, a classic Fieldbus or one of the many Real-Time-Ethernet protocols, netTAP provides a common platform for a transparent conversion of any protocol of industrial automation. For plants recently upgraded using Fieldbus or modernized

with Real-Time-Ethernet, netTAP enables the use of existing and proven field devices still by simply interfacing between the new and old technology. The modular device design combines the two network interfaces in a DIN-rail mountable housing. NetTAP is configured and diagnosed by a universal FDT/DTM based configuration tool suite.

LED indicators are visualizing status information for rapid on-site diagnostics. The protocol-conversion are pre-programmed and loaded as firmware onto the device on demand. Because of the same physical network interface all Real-Time-Ethernet protocols can be managed by one single device variant.

**Power Supply: 18-30V/130 mA @ 24V**    **netTAP 50**  
**Operating Temperature: 0 ... 60 °C**  
**Size: (L x W x H) 100 x 25 x 70mm**  
 (without connector)

**Power Supply: 18-30V/130 mA @ 24V**    **netTAP 100**  
**Operating Temperature: 0 ... 60 °C**  
**Size: (L x W x H) 100 x 52 x 70mm**  
 (without connector)

Controller      I/O-Device      Network configuration and diagnostics      Controller      I/O-Device

netSCRIPT-editor and debugger for netTAP 100

Order No.:	PROTOCOL CONVERTER Data	PRICE in Euro
NT 50-RS-EN	netTAP50 Gateway RS232/422/485 - Ethernet	225,-
NT 50-CO-RS	netTAP50 Gateway CANopen - RS232/422/485	225,-
NT 50-CO-EN	netTAP50 Gateway CANopen - Ethernet	225,-
NT 50-DN-RS	netTAP50 Gateway DeviceNet - RS232/422/485	225,-
NT 50-DN-EN	netTAP50 Gateway DeviceNet - Ethernet	225,-
NT 50-DP-RS	netTAP50 Gateway PROFIBUS-DP - RS232/422/485	225,-
NT 50-DP-EN	netTAP50 Gateway PROFIBUS-DP - Ethernet	225,-

Order No.:	PROTOCOL CONVERTER Data	PRICE in Euro
NT 100-RE-RS	netTAP100 Gateway serial RS232/422/485 - fieldbus	411,-
NT 100-RE-CO	netTAP100 Gateway RT-Ethernet - CANopen	516,-
NT 100-RE-DN	netTAP100 Gateway RT-Ethernet - DeviceNet	516,-
NT 100-RE-DP	netTAP100 Gateway RT-Ethernet - PROFIBUS-DP	516,-
NT 100-CO-DN	netTAP100 Gateway CANopen - DeviceNet	516,-
NT 100-CO-DP	netTAP100 Gateway CANopen - PROFIBUS-DP	516,-
NT 100-DN-CO	netTAP100 Gateway DeviceNet - CANopen	516,-
NT 100-DN-DP	netTAP100 Gateway DeviceNet - PROFIBUS-DP	516,-
NT 100-DP-CO	netTAP100 Gateway PROFIBUS-DP - CANopen	516,-
NT 100-DP-DN	netTAP100 Gateway PROFIBUS-DP - DeviceNet	516,-
NT 100-DP-DP	netTAP100 Gateway PROFIBUS-DP - PROFIBUS-DP	516,-
NT100-xx-xx/ML	NXLIC netX-Master Licence für RT-Ethernet, PROFIBUS-DP, CANopen, DeviceNet	+150,-

#### NETTAP 50 – THE LOW-COST GATEWAY

netTAP 50 is a protocol converter for simple conversions. It supports conversions of 1-port Real-Time-Ethernet to Fieldbus to serial automation protocols and realizes slave to slave and slave to master combinations. As a master netTAP 50 provides full master functionality to a single slave. This enables an effortless integration of a single field device into the superordinated network.

##### Highlights

- Cost optimized, compact design
- 1-port-Real-Time-Ethernet to Fieldbus, serial RS232/422/485 to Fieldbus or 1-port Real-Time-Ethernet
- Ethernet service port
- Integrated FDT/DTM based configuration tool
- Suitable for OEMs or reseller
- Slave to Slave, Slave to Master conversions

#### NETTAP 100 – GATEWAY WITHOUT LIMITS

netTAP 100 is the protocol converter for sophisticated conversions and manages next to serial to Fieldbus to 2-port Real-Time-Ethernet also Fieldbus to Fieldbus conversions. It supports slave and master functionality in any combination. There is no restriction on the master functionality. There is a memory card slot integrated, allowing the user to save the firmware and configuration data on a removable card.

##### Highlights

- Fieldbus to Fieldbus conversion
- 2-port-Real-Time-Ethernet to Fieldbus conversion
- RS232/422/485 to Fieldbus or 2-port-Real-Time-Ethernet conversion
- Master and Slave functionality in any combination
- Own serial protocols with netSCRIPT language
- Memory card option for saving firmware and configuration
- One single configuration tool
- USB service port

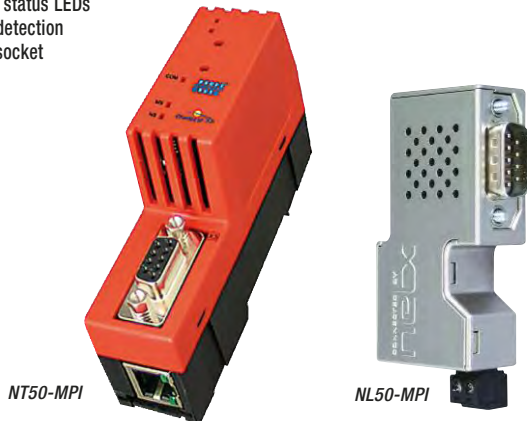
## GATEWAYS

### NETLINK MPI

The netLINK has a housing shape that fits in the PG sockets of the Siemens S7-300 and S7-400 controls. Ethernet: 10/100MBd with 16 connections. MPI/PROFIBUS-DP (up to 12MBd), DB9-connector, up to 32 MPI-connections. Protocol: IBH-Link for STEP®7 and RFC 1006. Power supply: 24VDC or via PG socket. Suitable for the use with STEP®7 of SIEMENS.

#### Highlights

- Parallel MPI communication to 32 controls via 16 TCP/IP connections
- RFC 1006 protocol for connection of visualizing systems
- Ethernet connection with auto crossover and autonegotiation
- Power supply through the PLC MPI-port or alternatively via external 24V
- RJ45 Port with status LEDs
- Autobaudrate detection
- Additional PG socket

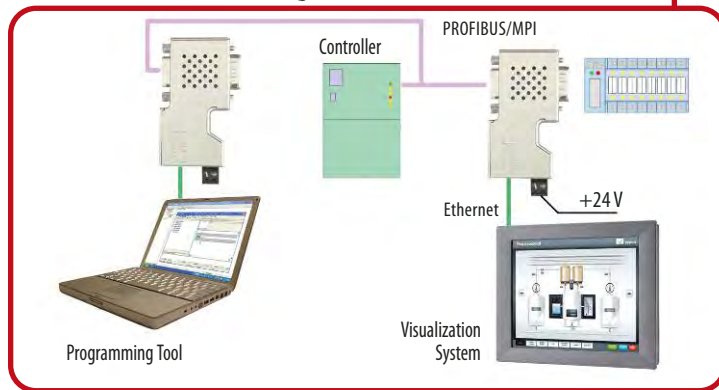
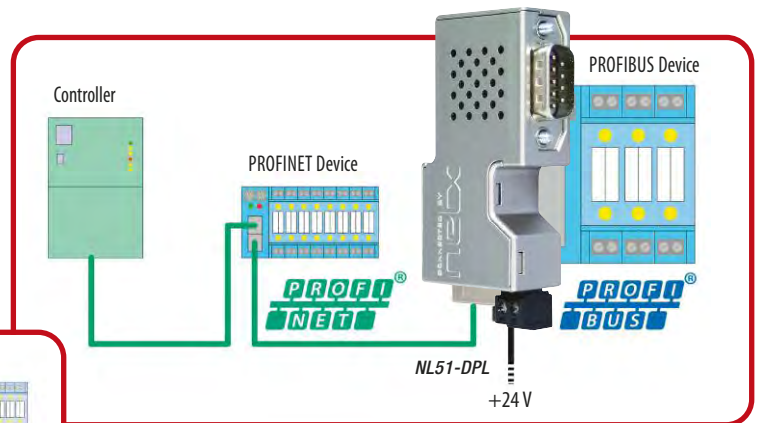


### NETLINK PROXY

NetLINK PROXY integrates any PROFIBUS-DP slave in a superordinated PROFINET network. As a connector the device is plugged directly on to the PROFIBUS-DP interface of the DP-Slave and connects to the PROFINET network via the RJ45 socket. On PROFINET side netLINK behaves like an ordinary I/O device. The DP-Slave's process data is mapped in accordance with the present PI-organization's guideline into the PROFINET slot/subslot addressing model. Commissioning is done via the PROFINET.

#### Highlights

- Integrates a single DP-Slave into PROFINET network
- For direct mounting on DP interface
- Compatible to any PROFIBUS node
- Automatic GSDML file generation from GSD file for PROFINET import
- Works in accordance with PI-organization's proxy guideline

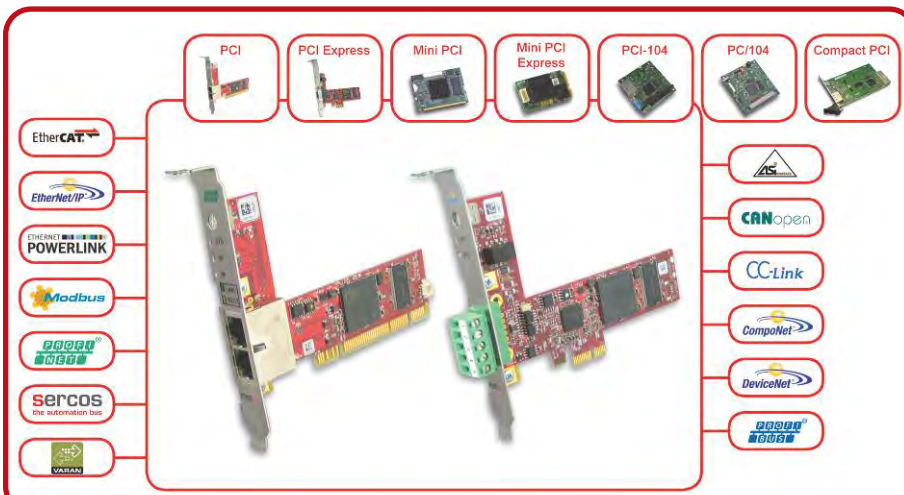


Article	MICRO-CONVERTER Description	PRICE in Euro
NT 50-MPI	Micro-converter Ethernet TCP/IP to S7-MPI/PROFIBUS-DP (up to 12Mbps) in the box of a NetTAP50. Supply: 24VDC. For the use with STEP®7 of SIEMENS.	555,-
NL 50-MPI	Micro-converter Ethernet TCP/IP to S7-MPI/PROFIBUS-DP (up to 12Mbps) in the box of a Profibus-connector. Supply: 24VDC or via PG-Connector. For the use with STEP® of SIEMENS.	484,-
NL 51-DPL	Micro converter ProfiNet to PROFIBUS-DP-Link (up to 12MBd) in the box of a Profibus-connector. Power supply: 24VDC	180,-

## PC FIELDBUS CARDS

### PC CARDS IN ALL FORMATS

With the cifX communication interface, the user will have a unified standard for all Real-Time-Ethernet and Fieldbus systems on different hardware platforms. The complete protocol stack will be executed on the PC card and data exchange to the host will be done via Dual-Port-Memory or DMA. Hilscher offers the cifX



PC communication cards with PCI or PCI Express, Mini PCI or Mini PCI Express, PCI-104, PC/104 or Compact PCI interface. With a rotary switch an easy and reliable slot assignment can be done for the PCI types. A complete software package including a single FDT/DTM based configuration tool for all products and networks, documentation, loadable firmware and driver tool-kit is always in the scope of delivery. Due to the own network controller netX a 10-years delivery is guaranteed.

- For all major network protocols
- Available in all common PC card formats
- Single hardware for all Real-Time-Ethernet protocols
- Minimum logistic and administrative effort through least product variety
- Comprehensive accessories (OPC server & driver for different OS)
- Same software host interface for all protocols
- Quick & Easy change of protocol by loadable firmware