

Gateways for Segment Coupling

Connect machines using different network technologies

- Coupling of different network segments
- Gateway acting as a device in both networks
- Support of all major Serial, Fieldbus and Industrial Ethernet networks as device
- Secure network separation, as only process data are exchanged
- Comfortable commissioning via the Hilscher toolchain



EtherCAT®

PROFINET

PROFIBUS

EtherNet/IP™

DeviceNet

CANopen

SERCOS
the automation bus

CC-Link

CC-Link IE Field

Modbus

ETHERNET
POWERLINK

ETHERNET

Serial

Available formats

	netTAP 50	netTAP 100	netTAP 151
Dimensions (L x W x H)	100 × 25 × 70 mm*	100 × 52 × 70 mm*	99 × 22.5 × 114.5 mm*
Protection class	IP 20	IP 20	IP 20
Mounting	DIN 60715 rail	DIN 60715 rail	DIN 60715 rail
Memory card	✗	✓	✓
USB Diagnostic port	✗	✓	✓

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



→ Gateways for Segment Coupling
Hotline: +49 (0) 6190 9907-90
www.hilscher.com

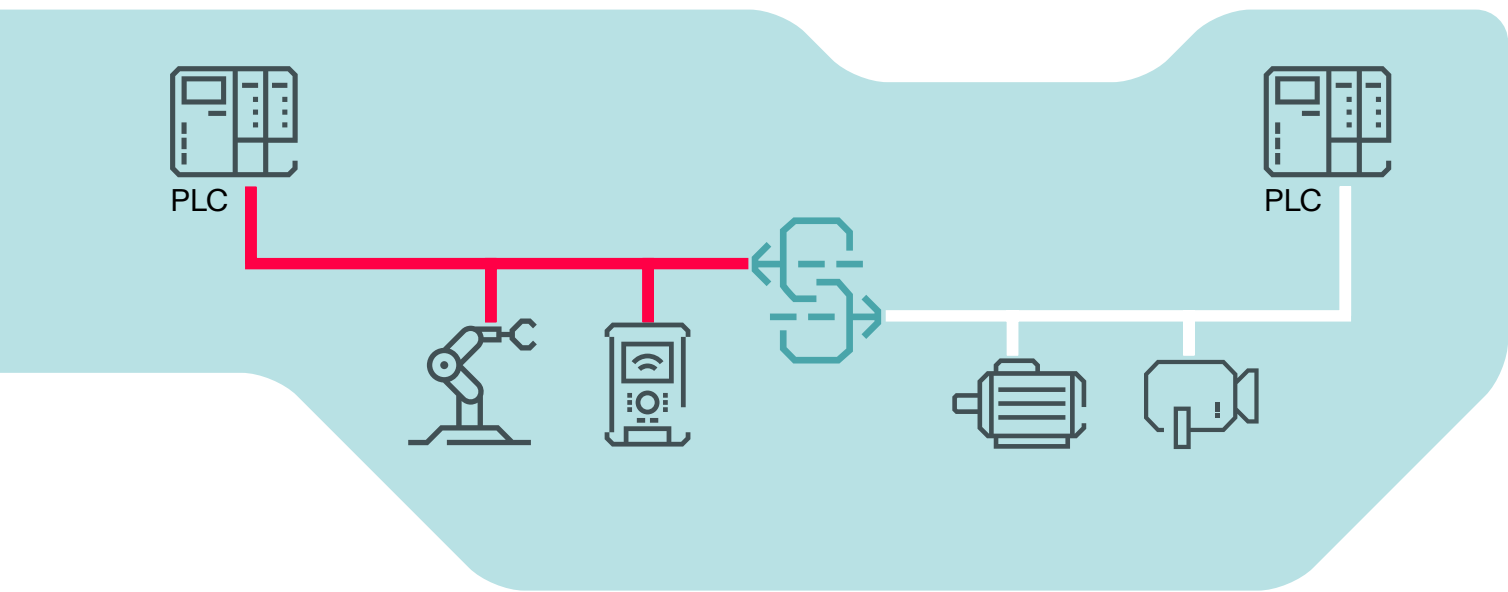
empowering communication

Gateways for Segment Coupling

Coupling of different network segments & technologies



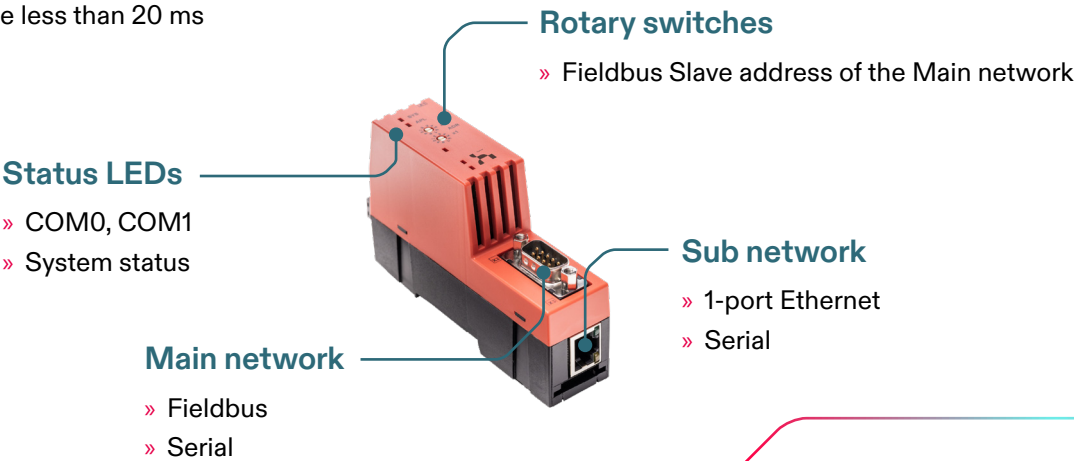
- Connect machines using different networks
- Secure segmentation within the same network technology
- Maximum convertible number of I/O data is determined by the protocol with the lower amount of I/O data
- Support of cyclic data only and protocol status information



NT 50

Entry class gateway

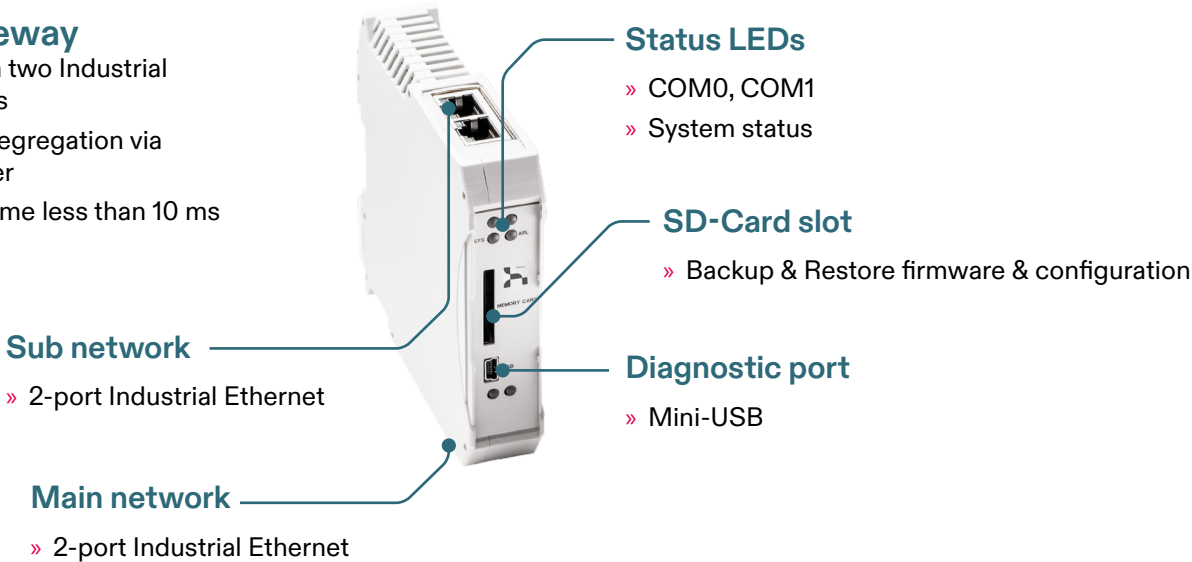
- » Slim and compact design
- » Focus on essential functionality
- » Conversion time less than 20 ms



NT 151

High-end gateway

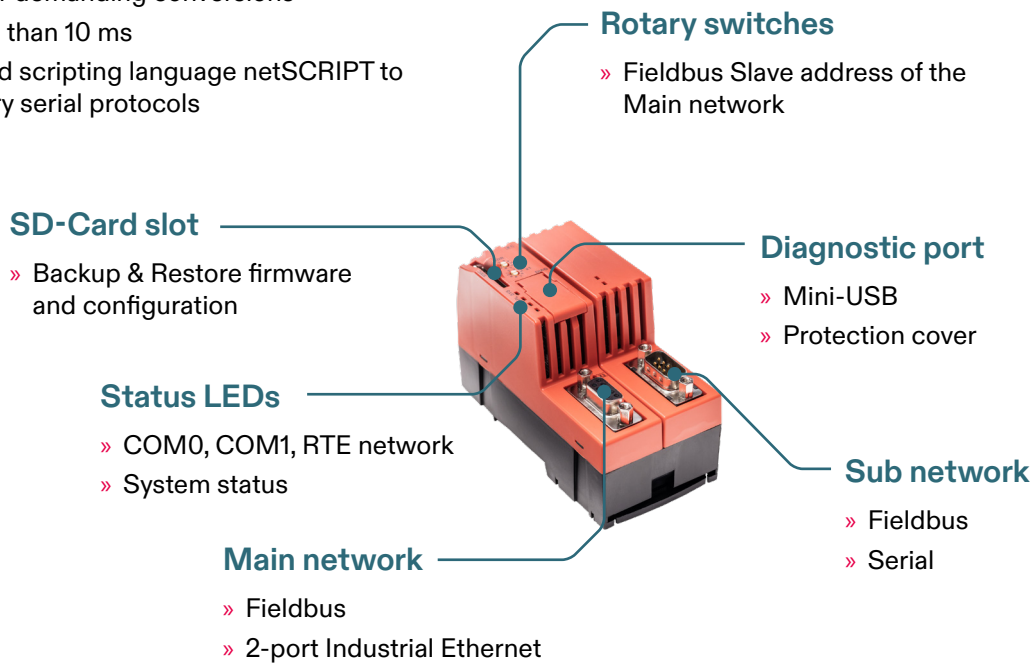
- » Bridging between two Industrial Ethernet networks
- » Secure network segregation via internal data buffer
- » Fast conversion time less than 10 ms



NT 100

Flexible gateway

- » High performance for demanding conversions
- » Conversion time less than 10 ms
- » Support of Lua-based scripting language netSCRIPT to programm proprietary serial protocols



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	netTAP 50	netTAP 100	netTAP 151
Performance Class	Entry class gateway	Flexible gateway	High-end gateway
Conversion types	» Fieldbus to Serial » Fieldbus to Ind. Ethernet » Ind. Ethernet to Serial	» Fieldbus to Fieldbus » Ind. Ethernet to Serial » Ind. Ethernet to Fieldbus » Ind. Ethernet to Ind. Ethernet	» Ind. Ethernet to Ind. Ethernet
Communication controller	netX 50	netX 100	netX 100 & netX 51
Power supply	18 ... 30 V DC	18 ... 30 V DC	18 ... 30 V DC
Power consumption	1,8 W	3,2 W	4,8 W
Operating Temperature, Air flow 0,5 m/s	0 °C ... +60 °C	0 °C ... +60 °C	-20 °C ... +60 °C
Storage temperature	-40 °C ... +85 °C	-40 °C ... +85 °C	-40 °C ... +85 °C
Relative humidity	10% ... 95% no condensation allowed	10% ... 95% no condensation allowed	10% ... 95% no condensation allowed
CE / UKCA	✓	✓	✓
UL	✗	✓ (E334100)	✓ (E334100)
RoHS	✓	✓	✓
Weight	80 g	150 g	121 g
Emission	CISPR 11 Class A	CISPR 11 Class A	EN55011 / CISPR 11; Class A
Immunity	EN 61131 - 2:2003	EN 61131 - 2:2003	EN 61000-6-2

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Gateways for Segment Coupling

Product name	Main network	Part number	Sub network						
			1-port Ethernet	2-port Ind. Ethernet	Serial	CC-Link	CANopen	DeviceNet	PROFIBUS
netTAP 50	Serial	1750.XXX	.110		.100				
netTAP 50	CC-Link	1754.XXX	.110		.100				
netTAP 50	CANopen	1756.XXX	.110		.100				
netTAP 50	DeviceNet	1757.XXX	.110		.100				
netTAP 50	PROFIBUS	1758.XXX	.110		.100				
netTAP 100	Industrial Ethernet	1712.XXX	.110		.100	.140	.160	.170	.180
netTAP 100	CANopen	1716.XXX	.110		.100	.140	.160	.170	.180
netTAP 100	DeviceNet	1717.XXX	.110		.100	.140	.160	.170	.180
netTAP 100	PROFIBUS	1718.XXX	.110		.100	.140	.160	.170	.180
netTAP 151	Industrial Ethernet	1722.XXX		.122					
netTAP 151	CC-Link IE Field	1724.XXX		.122					



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