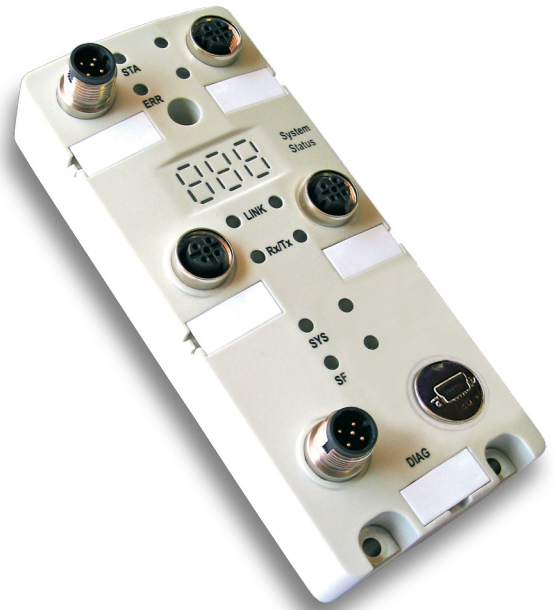


## Gateway for harsh industrial conditions

### Highlights

- For direct field mounting
- Protection class IP67, M12 connectors
- Real-Time Ethernet to Fieldbus, serial RS-232/422/485 to Fieldbus
- UL 1604 Approval
- Extended Temperature Range



netBRICK is the gateway solution for applications in harsh industrial environments and enables shifting classic cabinet installations directly into the field. Whether in outdoor, humid or hazardous areas the IP67 compliant rugged-line gateway resists most extreme environmental conditions.

netBRICK is firmware compatible to the IP20 compliant gateway netTAP 100 and converts the most established Real-Time Ethernet/Ethernet, Fieldbus and serial protocols used in the automation industry.

The robust and compact housing for simple screw mounting and the high flexibility of loadable firmware modules are making netBRICK a unique and most powerful gateway on the market applicable for any field installation in the automation industry.

netBRICK is configured and diagnosed with the FDT/DTM based planning, configuration and documentation tool SYCON.net. A USB port embedded into a M16 socket with blind plug serves as service interface. LED indicators allow rapid on-site visual diagnostics.

The M12 connectors of each netBRICK variant are implemented in accordance to the respective network standards. One connector pair shares one network. It is either physically wired together or separated when operating as a switch enabling the realization of inline installations without a need for T-connectors.

An additional male M12 connector serves to connect the 24 V supply voltage.

# Technical Data/ Product Overview

## Supported Protocol Conversions / Ordering Code

Primary / Secondary	EtherCAT	EtherNet/IP	Modbus TCP	Modbus RTU	ETHERNET POWERLINK	PROFINET	SERCOS	ASCII	netSCRIPT
CANopen	NT 100-RE-CO	NT 100-RE-CO	NT 100-RE-CO	NT 100-RS-CO	NT 100-RE-CO	NT 100-RE-CO	NT 100-RE-CO	NT 100-RS-CO	NT 100-RS-CO
DeviceNet	NB 100-RE-DN	NB 100-RE-DN	NB 100-RE-DN	NB 100-RS-DN	NB 100-RE-DN	NB 100-RE-DN	NB 100-RE-DN	NB 100-RS-DN	NB 100-RS-DN
PROFIBUS	NB 100-RE-DP	NB 100-RE-DP	NB 100-RE-DP	NB 100-RS-DP	NB 100-RE-DP	NB 100-RE-DP	NB 100-RE-DP	NB 100-RS-DP	NB 100-RS-DP

Note: A master license needs to be ordered separately for conversions with master functionality (except Modbus RTU/TCP)

- -Primary-Secondary
- -Slave-Slave; -Master-Slave
- -Slave-Master; -Slave-Slave
- -Master-Slave; -Slave-Slave; -Slave-Master
- -Master-Slave; -Master-Master; -Slave-Slave; -Slave-Master
- -Serial-Slave; -Serial-Master

Parameter	Value
Diagnostic interface	Mini USB
LED indicators	SYS, APL, protocol specific
Power Supply	18 ... 30 V / 130 mA @ 24 V
Supply Connector	M12 male A-coded
Operating Temperature	-20 ... 70 °C
Dimensions (L x W x H)	140 mm x 60 mm x 25 mm
Mounting	Screw mounting
Weight	350 g
CE Sign	Yes
Connectors	M12 B-coded for PROFIBUS/serial M12 A-coded for CANopen/DeviceNet M12 D-coded for Ethernet
UL approval	UL 1604 registered
Emission	CISPR 11 Class A
Noise immunity	EN 61131-2:2003

Protocol	Bytes I/O-Data Master	Bytes I/O-Data Slave
ASCII	2024	2024
CANopen	7168	1024
DeviceNet	7168	510
EtherCAT	11520	400
Ethernet/IP	11520	1008
Modbus RTU	11520	11520
Modbus TCP	11520	11520
netSCRIPT	2048	2048
POWERLINK		2980
PROFIBUS-DP	7168	488
PROFINET-IO	11520	2048
SERCOS III	11520	396

Note: All technical data can be altered without notice

The effectively convertible number of I/O data of a protocol conversion is determined by the protocol with the lower I/O data number.

Article Description	Article Number	Article
NB 100-RE-CO	1782.160	netBRICK 100 Real-Time Ethernet - CANopen
NB 100-RE-DN	1782.170	netBRICK 100 Real-Time Ethernet - DeviceNet
NB 100-RE-DP	1782.180	netBRICK 100 Real-Time Ethernet - PROFIBUS-DP
NB 100-RS-CO	1780.160	netBRICK 100 Serial - CANopen
NB 100-RS-DN	1780.170	netBRICK 100 Serial - DeviceNet
NB 100-RS-DP	1780.180	netBRICK 100 Serial - PROFIBUS-DP

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