

netBRICK

the rugged-line Gateway

Highlights

- For harsh industrial conditions and direct field mounting
- Protection class IP67, fully moulded, M12 connectors
- Real-Time Ethernet to Fieldbus, serial RS232/422/485 to Fieldbus or Real-Time Ethernet
- UL and marine approval
- FDT/DTM based planning, configuration and diagnostic tool
- USB service port

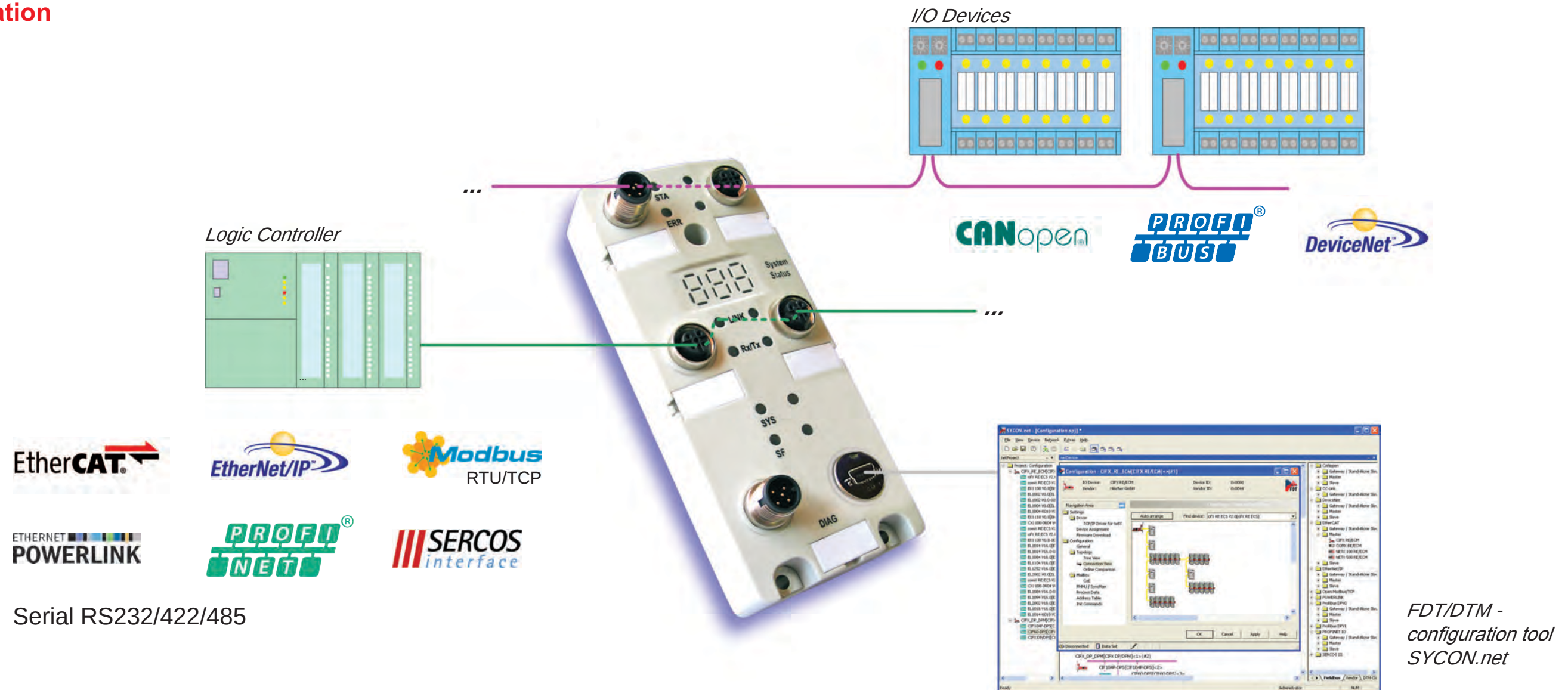


netBRICK is the gateway solution for applications in harsh industrial environments and enables shifting classic cabinet installations directly into the field. Whether in outdoor, humid or hazardous areas, fully moulded, assembled with M12 connectors and IP67 compliant the rugged-line gateway resists 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.

Application



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 on site rapid visual diagnostics.

The M12 connectors of each netBRICK variant are network specific wired in accordance with the respective specification. As a pair two of them are assigned to one network and are internally wired together. This allows realizing simple line structures without a need for T-connectors. An additional M12 connector serves to connect the 24 V supply voltage.

Technical Data/ Product Overview

Technical Data

Parameter	Value
Diagnostic interface	Mini USB
LED indicators	SYS, APL, protocol specific
Power Supply	18 ... 30 V / 130 mA @ 24 V
Supply Connector	5 Pin M12 Connector, 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	PROFIBUS, serial M12 B-coded, CAN based M12 A-coded, Ethernet D-coded
UL marine approval	Pending
Emission	CISPR 11 Class A
Noise immunity	EN 61131-2:2003

Cyclic process data max.

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

Note: All technical data can be altered without notice.

	CANopen	DeviceNet	PROFIBUS	EtherCAT	EtherNet/IP	Modbus TCP	POWERLINK	PROFINET	SERCOS interface
CANopen				Master/Slave Slave/Slave Slave/Master	Master/Slave Slave/Slave Slave/Master	Master/Slave Master/Master Slave/Slave Slave/Master	Master/Slave Slave/Slave	Master/Slave Slave/Slave Slave/Master	Master/Slave Slave/Slave
DeviceNet				Master/Slave Slave/Slave Slave/Master	Master/Slave Slave/Slave Slave/Master	Master/Slave Master/Master Slave/Slave Slave/Master	Master/Slave Slave/Slave	Master/Slave Slave/Slave Slave/Master	Master/Slave Slave/Slave
Modbus RTU		Master/Slave Slave/Slave Slave/Master	Master/Slave Slave/Slave Slave/Master	Master/Slave Master/Master Slave/Slave Slave/Master	Master/Slave Master/Master Slave/Slave Slave/Master	Master/Slave Master/Master Slave/Slave Slave/Master	Master/Slave Slave/Slave	Master/Slave Slave/Slave Slave/Master	Master/Slave Slave/Slave
PROFIBUS				Master/Slave Slave/Slave Slave/Master	Master/Slave Slave/Slave Slave/Master	Master/Slave Master/Master Slave/Slave Slave/Master	Master/Slave Slave/Slave	Master/Slave Slave/Slave Slave/Master	Master/Slave Slave/Slave
ASCII	Serial/Slave Serial/Master	Serial/Slave Serial/Master	Serial/Slave Serial/Master	Serial/Slave Serial/Master	Serial/Slave Serial/Master	Serial/Slave Serial/Master	Serial/Slave	Serial/Slave Serial/Master	Serial/Slave
netSCRIPT	Custom Serial/ Slave Custom Serial/ Master	Custom Serial/ Slave Custom Serial/ Master	Custom Serial/ Slave Custom Serial/ Master	Custom Serial/ Slave Custom Serial/ Master	Custom Serial/ Slave Custom Serial/ Master	Custom Serial/ Slave Custom Serial/ Master	Custom Serial/ Slave	Custom Serial/ Slave Custom Serial/ Master	Custom Serial/ Slave

Overview

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

Note: For master protocols a separate master license needs to be ordered separately.

Headquarters

Germany
Hilscher Gesellschaft für
Systemautomation mbH
Rheinstrasse 15
65795 Hattersheim
Fax: +49 (0) 6190 9907-50
E-Mail: info@hilscher.com
Web: www.hilscher.com

Subsidiaries

China
Hilscher Systemautomation (Shanghai) Co. Ltd.
200010 Shanghai
Phone: +86 (0) 21-6355-5161

France
Hilscher France S.a.r.l.
69500 Bron
Phone: +33 (0) 4 72 37 98 40
E-Mail: info@hilscher.fr

India
Hilscher India Pvt. Ltd.
New Delhi - 110 025
Phone: +91 11 40515640

Italy
Hilscher Italia srl
20090 Vimodrone (MI)
Phone: +39 02 25007068
E-Mail: info@hilscher.it

Japan
Hilscher Japan KK
Tokyo, 160-0022
Phone: +81 (0) 3-5362-0521

Korea
Hilscher Korea Inc.
Suwon, 443-734
Phone: +82 (0) 31-695-5515
E-Mail: info@hilscher.kr

Switzerland
Hilscher Swiss GmbH
4500 Solothurn
Phone: +41 (0) 32 623 6633

USA
Hilscher North America, Inc.
Lisle, IL 60532
Phone: +1 630-505-5301
E-Mail: info@hilscher.us

Distributors (more information on www.hilscher.com)

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