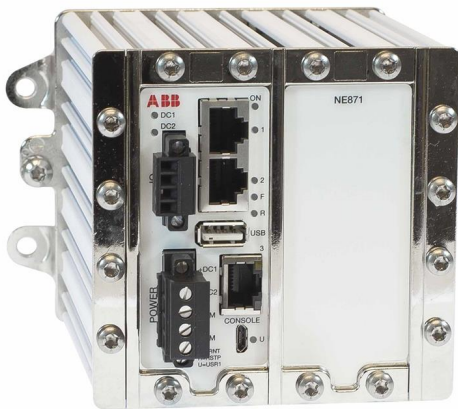


NE871

System 800xA hardware selector



NE871 is an industrial router which also acts as a firewall. The router/firewall can be utilized to segment a system into network areas and also security zones. NE871 is primarily intended to connect a client server network to a plant network or to a DMZ (demilitarized zone).

The concept of security zoning is described in IEC62443. In short, security zoning is a method to segment a system into zones with different security levels. A security level is complied with by implementing a combination of security countermeasures. The reason why it potentially could make sense to divide a system into security zones, which comply with different security levels, could be that the risk for different parts of the system varies. Another could be that the impact of a potential incident varies.

NE871 supports RNRP (Redundant Network Routing Protocol), which enables 800xA to have two physically separate networks, and thereby avoid single point of failure.

Features and benefits

- NE871 has redundant power supply and alarm function
- Wide operating voltage range (16 VDC to 60 VDC)
- Back end holds a casted DIN-clip for stable mounting on a DIN-rail.
- Digital IO for monitoring
- Console port for management using CLI
- USB port for easy save and load system configuration
- 3 x RJ-45 Ethernet 1000BaseTX connectors
- Status LEDs

More info

Product title	Article number	Type	Link speed (Mbit/s)	Indicative range (km)	Power budget (dB)	TX/RX wavelength (nm)
PT801	3BSE080214R1	Multi mode	100	2	20	1310/1310
PT802	3BSE080215R1	Single mode	100	20	17	1310/1310
PT803	3BSE080223R1	Single mode, BiDi	100	20	18	1310/1550
PT804	3BSE080224R1	Single mode, BiDi	100	20	18	1550/1310
PT805	3BSE080216R1	Single mode	100	40	30	1310/1310
PT806	3BSE080227R1	Single mode, BiDi	100	40	26	1310/1550
PT807	3BSE080228R1	Single mode, BiDi	100	40	26	1550/1310
PT808	3BSE080217R1	Single mode	100	80	30	1550/1550
PT809	3BSE080235R1	Single mode, BiDi	100	80	29	1310/1550
PT810	3BSE080236R1	Single mode, BiDi	100	80	35	1550/1310
PT811	3BSE080218R1	Single mode	100	120	35	1550/1550
PT812	3BSE080233R1	Single mode, BiDi	100	120	32	1550/1490
PT813	3BSE080234R1	Single mode, BiDi	100	120	32	1490/1550
PT814	3BSE080232R1	RJ45	10/100	0.1	-	-
PT831	3BSE080222R1	Multi mode	1000	0.3–0.55	9	850/850
PT832	3BSE080225R1	Multi mode	1000	1–2	1	1310/1310
PT833	3BSE080219R1	Single mode	1000	10	11	1310/1310
PT834	3BSE080229R1	Single mode, BiDi	1000	20	15	1310/1490
PT835	3BSE080230R1	Single mode, BiDi	1000	20	15	1490/1310
PT836	3BSE080220R1	Single mode	1000	50	20	1550/1550
PT837	3BSE080221R1	Single mode	1000	80	24	1550/1550
PT838	3BSE080231R1	Single mode	1000	110	30	1550/1550
PT839	3BSE080226R1	RJ45	1000	0.1	-	-

General info

Article number	3BSE080240R1
Ethernet TX 10/100/1000	3 ports
Ethernet SFP	-
Network redundancy	Redundant Network Routing Protocol (RNRP)
Managed	Router
Mounting	DIN
Routing	RNRP
Firewall	Yes

Detailed data

Operating Voltage	16 to 60 VDC
Rated Current	0.31 (0.48*) A @ 20 VDC 0.15 (0.21*) A @ 48 VDC
Digital I/O	1 x 4-ports detachable screw terminal
Console	1 x USB Micro-B connector

Environmental and certification

Degree of protection	IP40
Operating Temperature	-40 to +70 °C
Temperature Storage	-50 to +85 °C
Marine certificate	DNV
G3 compliant	Compliant
MTBF	430,000 hours
RoHS compliance	EN 50581:2012

Dimensions

Dimension (WxHxD)	134 x 100 x 122 mm
Weight	1.5 kg

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www.abb.com/controlsystems

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