

# NE871

## ABB Ability™ System 800xA® hardware selector



NE871 is an industrial router that 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 IEC 62443. 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 a single point of failure.

### Features and benefits

- NE871 has a redundant power supply and alarm function
- Wide operating voltage range (16 VDC to 60 VDC)
- The 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 TX 10/100/1000 connectors
- Status LED's

#### General info

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

Environment and certification	
Degree of protection	IP40
Operating Temperature	-40 to +70 °C
Temperature Storage	-50 to +85 °C
Marine certificate	DNV
G3 compliant	Compliant
RoHS compliance	EN 50581:2012
WEEE compliance	DIRECTIVE/2012/19/EU

Dimensions	
Dimension (WxHxD)	134 x 100 x 122 mm
Weight	1.5 kg (3.31 lbs.)

---

**[solutions.abb/800xA](https://solutions.abb/800xA)**  
**[solutions.abb/controlsystems](https://solutions.abb/controlsystems)**

---

800xA and Symphony Plus is a registered trademark of ABB. All rights to other trademarks reside with their respective owners.

We reserve the right to make technical changes to the products or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not assume any responsibility for any errors or incomplete information in this document.

We reserve all rights to this document and the items and images it contains. The reproduction, disclosure to third parties or the use of the content of this document – including parts thereof – are prohibited without ABB's prior written permission.

Copyright© 2025 ABB All rights reserved