

# NE870

## ABB Ability™ System 800xA® hardware selector



NE870 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. NE870 is primarily intended to be used to separate client/server networks and control networks, to separate different control and safety networks, and also to create RNRP tunnel areas between RNRP networks.

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.

NE870 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

- NE870 has a 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 LED's

| General info            |   |
|-------------------------|---|
| Article number          | 3BSE080239R1                              |
| Ethernet TX 10/100      | 8 ports                                   |
| 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     | 0.43 (0.60*) A @ 20 VDC 0.19 (0.25*) 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© 2024 ABB All rights reserved