

# Networks

## Compact Product Suite hardware selector



ABB offers network switches and high-performance industrial Ethernet routers with firewall functionality. The routers also support the Redundant Network Routing Protocol (RNRP).

Here you can choose and compare hardware at a glance, filter according to needs, and download pdf-outlines for a product area or export individual data sheets.

The network equipment has the following general features:

- Pre-configured for use with System 800xA
- Enhanced monitoring using PNSM
- Long life duration
- Fully supported by ABB

For updated information regarding this hardware please visit our Hardware Selector. In the hardware selector, you can compare different controllers, communication interfaces, I/O systems, I/O module termination units, network equipment, panels, power supplies & voters. Print your own PDF files or save an outline of all modules in the product area.

Below is an outline of the range of different network products available.



Specific feature <sup>1</sup>	NE801	NE802	NE810	NE820
<b>General info</b>				
Article number	3BSE080209R1	3BSE080237R1	3BSE080207R1	3BSE080208R1
Ethernet TX 10/100	4 ports	-	8 ports	
Ethernet TX 10/100/1000	-	4 ports	-	7 ports
Ethernet SFP	1 x LC-connection, 100 Mbit/s	1 x 10/100/1000 Mbit/s	2 x 10/100/1000 Mbit/s	4 x 10/100/1000 Mbit/s
Managed	Lightly managed		Managed	
Mounting	DIN			
Layer	Layer 2			
Firewall	No			
Network redundancy			Fast reconfiguration of network typology (FRNT)	
<b>Dimensions</b>				
Dimension (WxHxD)	34 x 123 x 121 mm		52 x 100 x 101 mm	175 x 105 x 122 mm
Weight	0.2 kg (0.44 lbs.)		0.7 kg (1.54 lbs.)	2.2 kg (4.85 lbs.)
<b>Environment and certification</b>				
RoHS compliance	EN 50581:2012			
WEEE compliance	DIRECTIVE/2012/19/EU			

<sup>1</sup> For detailed information on each module, please visit: [compacthardwareselector.automation.abb.com](https://compacthardwareselector.automation.abb.com)



Specific feature <sup>1</sup>	NE840	NE870	NE871
<b>General info</b>			
Article number	3BSE080211R1	3BSE080239R1	3BSE080240R1
Ethernet TX 10/100	8 ports		-
Ethernet TX 10/100/1000	7 ports	3 ports	
Ethernet SFP	4 x 10/100/1000 Mbit/s	-	
Managed	Managed	Router	
Mounting	Rack	DIN	
Layer	Layer 2	Layer 3 routing - RNRP	
Firewall	No	Yes	
Network redundancy	Fast reconfiguration of network topology (FRNT)	Redundant Network Routing Protocol (RNRP)	
<b>Dimensions</b>			
Dimension (WxHxD)	466 x 258 x 43 mm	134 x 100 x 122 mm	
Weight	3.8 kg (8.38 lbs.)	1.5 kg (3.31 lbs.)	
<b>Environment and certification</b>			
RoHS compliance	EN 50581:2012		
WEEE compliance	DIRECTIVE/2012/19/EU		

<sup>1</sup> For detailed information on each module, please visit: [compacthardwareselector.automation.abb.com](http://compacthardwareselector.automation.abb.com)

# SFP table

Not applicable for NE870, NE871

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	-	-

—  
**[solutions.abb/compactproductsuite](https://solutions.abb/compactproductsuite)**  
**[solutions.abb/controlsystems](https://solutions.abb/controlsystems)**

—  
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