

# Networks

## ABB Ability™ Symphony® Plus 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
General info				
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)	
Dimensions				
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.)
Environment and certification				
RoHS compliance	EN 50581:2012			
WEEE compliance	DIRECTIVE/2012/19/EU			

<sup>1</sup> For detailed information on each module, please visit: [symphonyplushardwareselector.com](https://www.abb.com/industrial/products/automation/symphonyplus/hardwareselector)



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 typology (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: [symphonypushhardwareselector.com](https://www.symphonypushhardwareselector.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	-	-

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[solutions.abb/symphonyplus](https://solutions.abb/symphonyplus)  
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