REDZ
SMART COMMUNICATION

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BSB Series Industrial Unmanaged Ethernet Switches

Plug-and-play 10/100 switches for the DIN rail

- Connects 5 or 8 Ethernet devices in a cabinet, without any configuration
- LEDs show the link and activity of every port
- DC or AC power input, SFP fiber uplinks or PoE+ for cameras and access points

BSB Series switches connect meters, controllers, gateways and cameras: 5 or 8 copper ports at 10/100 Mbit/s, two SFP uplinks on BSB120 and BSB220 and PoE+ on all 8 ports of BSB268.

Highlights

1. **No configuration:** the switch is ready when powered, with no software and no settings.
2. **Wide power input:** 9 - 48 V DC versions with a polarity-independent input, AC versions with an isolated power supply.
3. **Fiber uplinks:** BSB120 and BSB220 carry two SFP slots for 100 Mbit/s or 1 Gbit/s fiber modules.
4. **PoE+:** BSB268 powers up to 8 IEEE 802.3af/at devices from its 90 W supply.

Key Figures

8 x 10/100
copper ports with auto MDI/MDIX; 5-port versions as well

2 x SFP
fiber uplinks for 100 Mbit/s or 1 Gbit/s on BSB120 / BSB220

PoE+ 90 W
IEEE 802.3af/at on all 8 ports of BSB268, up to 30 W per port

-40 to +85 C
operating range of BSB115 and BSB118

4200 Vrms
isolation of the AC power supply in BSB215, BSB218 and BSB220

DIN rail
compact metal housing, 44 x 95 x 125 mm

Main Features

Switching

- Store-and-forward switching with IEEE 802.3x flow control in full duplex and back pressure in half duplex.
- Auto negotiation and auto MDI/MDIX on every copper port: straight or crossed cables both work.
- MAC address table: 1K entries on the 5- and 8-port models and BSB268, 16K entries on BSB120 / BSB220.

Fiber uplinks (BSB120 / BSB220)

- Two SFP slots for 1000BASE-X or 100BASE-FX modules; a plugged-in fiber module takes over the uplink port.
- ACT and SPD LEDs for each SFP slot.

PoE+ (BSB268)

- IEEE 802.3af and 802.3at on all 8 ports, up to 30 W per port.
- Each port is checked before power is applied and switched off on overload or short circuit.
- Built-in 90 W supply shared by all ports; above about 50 C the total PoE power is reduced.

Power

- DC versions: 9 - 48 V DC, polarity-independent input, the supply can be connected either way round.
- AC versions: 100 - 240 V AC (120 - 370 V DC), 50 - 60 Hz, isolated power supply.

Models

- BSB115 / BSB215: 5 x 10/100
- BSB118 / BSB218: 8 x 10/100
- BSB120 / BSB220: 8 x 10/100 + 2 x SFP
- BSB268: 8 x 10/100 PoE+

Power input

- BSB115, BSB118, BSB120: 9 - 48 V DC
- BSB215, BSB218, BSB220: 100 - 240 V AC (120 - 370 V DC)
- BSB268: 100 - 240 V AC (120 - 370 V DC), 90 W for PoE

Conformity

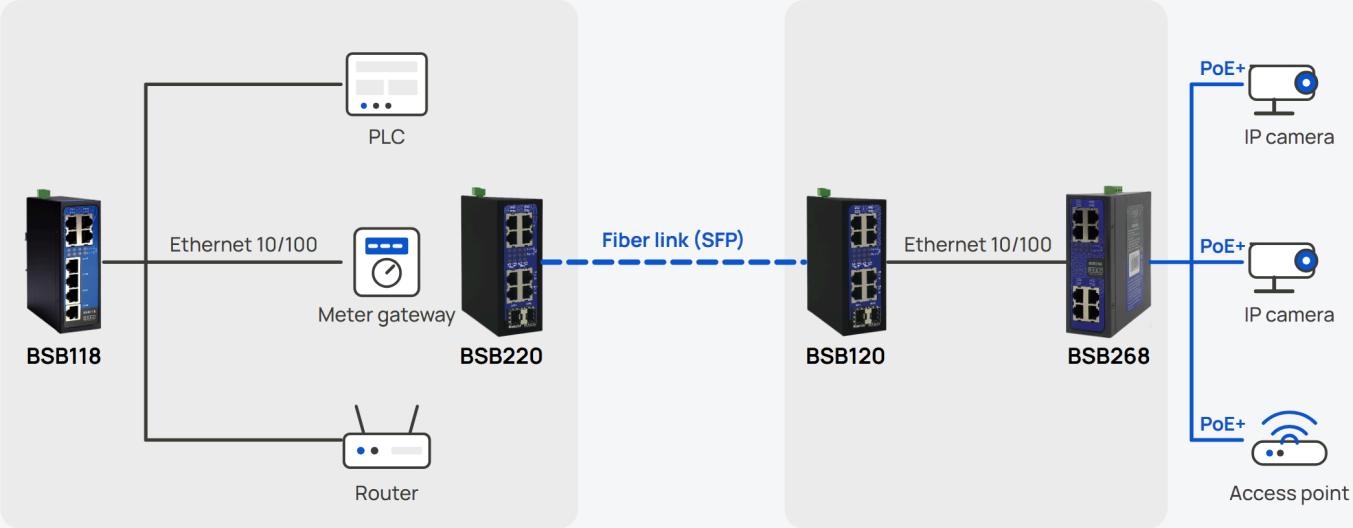
- CE: manufacturer declaration for BSB115, BSB118, BSB215 and BSB218 to EN 55032 and EN IEC 62368-1.

Technical Data

	BSB115 / BSB118 5 / 8 ports, DC	**BSB215 / BSB218** 5 / 8 ports, AC	**BSB120 / BSB220** 8 ports + 2 SFP	**BSB268** 8 ports, PoE+
Ethernet ports	5 or 8 x 10/100	5 or 8 x 10/100	8 x 10/100 + 2 x SFP	8 x 10/100 PoE+
Power input	9 - 48 V DC	100 - 240 V AC (120 - 370 V DC), 50 - 60 Hz	BSB120: 9 - 48 V DC; BSB220: 100 - 240 V AC (120 - 370 V DC)	100 - 240 V AC (120 - 370 V DC), 50 - 60 Hz
Protection	Reverse polarity	Isolated supply with input varistor	Isolated supply with input varistor	Input fuse and varistor, port fuses and surge diodes, PoE overload cut-off
Isolation	-	4200 Vrms (power supply)	BSB220: 4200 Vrms (power supply)	4 kV AC (power supply)
Operating temperature	-40 to +85 C	-25 to +70 C	0 to +70 C	-30 to +80 C
Storage temperature	-40 to +85 C	-40 to +85 C	-40 to +85 C	-40 to +85 C
Humidity	5 - 95 %, non-condensing	5 - 95 %, non-condensing	5 - 95 %, non-condensing	5 - 95 %, non-condensing
Housing	Metal, IP40	Metal, IP40	Metal, IP40	Metal, IP40
Mounting	DIN rail	DIN rail	DIN rail	DIN rail
Dimensions (w x d x h)	44 x 95 x 125 mm	44 x 95 x 125 mm	44 x 95 x 125 mm	44 x 95 x 125 mm
Weight	approx. 380 g	approx. 380 g	approx. 380 g	approx. 400 g
Standards	IEEE 802.3, 802.3u, 802.3x	IEEE 802.3, 802.3u, 802.3x	IEEE 802.3, 802.3u, 802.3x, 802.3z	IEEE 802.3, 802.3u, 802.3x, 802.3af, 802.3at

Values per model group: BSB115, BSB118 and BSB120 are DC powered, the other models AC powered.

Typical Application



Typical application: BSB118 and BSB220 in one cabinet, a fiber link to BSB120 in a second cabinet, and BSB268 feeding cameras and an access point with PoE+.

Product Comparison

BSB	115	118	215	218	120	220	268
5 x 10/100 ports	●		●				
8 x 10/100 ports		●		●	●	●	●
2 x SFP uplink slots					●	●	
PoE+ on all ports							●
9 - 48 V DC power input	●	●			●		
100 - 240 V AC power input			●	●		●	●
Operating from -40 C	●	●					
Isolated power supply			●	●		●	●

Ordering Information

Model	Ports	Power	Description
BSB115	5 x 10/100	9 - 48 V DC	Industrial unmanaged Ethernet switch, 5 ports, 9 - 48 V DC power input
BSB118	8 x 10/100	9 - 48 V DC	Industrial unmanaged Ethernet switch, 8 ports, 9 - 48 V DC power input
BSB215	5 x 10/100	100 - 240 V AC (120 - 370 V DC)	Industrial unmanaged Ethernet switch, 5 ports, AC power input
BSB218	8 x 10/100	100 - 240 V AC (120 - 370 V DC)	Industrial unmanaged Ethernet switch, 8 ports, AC power input
BSB120	8 x 10/100 + 2 x SFP	9 - 48 V DC	Industrial unmanaged Ethernet switch, 8 ports and 2 SFP uplinks, 9 - 48 V DC power input
BSB220	8 x 10/100 + 2 x SFP	100 - 240 V AC (120 - 370 V DC)	Industrial unmanaged Ethernet switch, 8 ports and 2 SFP uplinks, AC power input
BSB268	8 x 10/100 PoE+	100 - 240 V AC (120 - 370 V DC)	Industrial unmanaged Ethernet switch, 8 PoE+ ports, 90 W, AC power input