



# 2012 Catalogue

## Media Converters, Ethernet Switches, SFP Modules



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## 10/100-TX to 100-FX MEDIA CONVERTER

### Overview

BL-100 Converters are compact size units with metal cases to fulfill the FCC emission standards. The 100Base-TX and the 100Base-FX converter feature LED diagnostics for Power, Activity, Link and Full Duplex / Half Duplex operation. All converters are fully compliant with the IEEE 802.3 & 802.3u Fast Ethernet standards and feature one STP-RJ45 10/100Base-TX port as well as one Fiber Optic 100Base-FX (SC/ST) port.

The BL-100C/T is used in applications where multimode fiber is installed while the BL-100C single mode can be used where single mode fiber cables are in use. This type of converter can extend the transmission distance from 2km to 80 km. Each unit is powered by an external power supply. Installation of the Fast Ethernet converter is simple and straightforward. The powerful features are 10/100 Auto Negotiation, Auto cross over for TP port, Fiber Link Alarm, Voltage supervisor, and support switch mode & pure converter mode.

### Key Features

- Supports Full and half duplex transmission
- LED Indicators: Power, FDX, TP 100, TX Link/Act, Fiber , FX Link/ACT
- 10/100Mbps Auto Negotiation
- Auto cross over for TP port
- Support Link Alarm
- Support Switch mode & Pure converter mode
- Dual Port 10/100Mbps Switch inside
- Metal Case
- Voltage supervisor



### Specifications

<b>Ethernet Standards</b>	IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100 Base-TX/FX Fast Ethernet IEEE 802.3x Flow Control IEEE 802.1q VLAN IEEE 802.1p QoS IEEE 802.1d spanning Tree
<b>Ports</b>	One RJ 45 connector, connected to STP/UTP category– 5 twisted pair One FX port: Multi Mode-SC or ST (fiber size: 50,62.5/125µm) Single Mode-SC fiber port (fiber size:9/125µm)
<b>Mac Table</b>	1 K entries
<b>Data Transfer Rate</b>	200Mbps-Full Duplex
<b>LED</b>	Power TX link ( fiber link action ), TP LINK1000, TP LINK100, TP ACT ) FDX (FX full duplex mode), FX100 (Fiber, with a transmission rate of 100M) TP1/2/3/4 LINK/ACT (1/2/3/4-port twisted pairs connection action) TP1/2/3/4100 (1/2/3/4-port twisted pairs, with a transmission rate of 100M)
<b>Switching method</b>	Store and forward
<b>Power</b>	Ext. Power Supply, 5V DC 1A Power consumption: 5W
<b>Operation and Storage Temperature</b>	Operation: -10°~ 55 °C ;Storage Temp. -40°~ 70°
<b>Humidity</b>	5% ~90% non condensing
<b>Emission &amp; Compliance</b>	FCC CLASS A and CE, RoHS
<b>Dimension</b>	94x71x26 (out) (DxWxH)
<b>Warranty</b>	3 year limited

### Ordering Information

<b>BL-100C</b>	10/100Base-T/TX to 100Base-FX(SC) Multi-Mode 2km
<b>BL-100T</b>	10/100Base-T/TX to 100Base-FX(ST) Multi-Mode 2km
<b>BL-100C-20 (40/60/80 km)</b>	10/100Base-T/TX to 100Base-FX(SC) Single-Mode, 20KM <b>(40/60/80 km special order)</b>

## 100-FX MULTI MODE to 100-FX SINGLE MODE SC MEDIA CONVERTER

### Overview

The series BM-120 provide data transmission between multimode (850 nm and 1310 nm) and single mode (1310nm). The longest distance on the single mode fiber can reach 120km. Different wavelength on the multimode can be provided building the unit with SFP modules (LC connection)



### Key Features

- Provides one port Multi-Mode with SC, ST fiber connector and one port Single-Mode SC fiber connector.
- LED Indication: PWR/Fiber A, Fiber B.
- Extended Single-Mode fiber optic distance up to 120 km
- 1024 MAC address.
- Standalone or mountable in a chassis : our **BM-1400R**

### Specifications

<b>Ethernet Standards</b>	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, 100BASE-FX
<b>LED Reports</b>	Per Unit – Power *2, Fiber A, Fiber B
<b>Cable</b>	10Base-T 2-pair UTP Cat. 3, 4, 5, Up to 100 m (328 ft) 100BASE-TX 2-pair UTP Cat. 5, Up to 100 m (328 ft) 100Base-FX 62.5/125um Multi-Mode Fiber Optic cable, up to 2km 10/125um Single-Mode fiber Optic cable, up to 25 km
<b>Forwarding Rate</b>	14,880pps for 10Mbps; 148,800pps for 100Mbps
<b>Power</b>	DC 5V 1.2A External Power Supply
<b>Operating Temp.</b>	0 °C - 70 °C (32°F~158°F)
<b>Storage Temp.</b>	-25° - 70° (-13°F ~ 158°F)
<b>Humidity</b>	5% - 90% non-condensing
<b>Emission &amp; Compliance</b>	CE & FCC, RoHS
<b>Dimensions</b>	30x112x14mm (2.75" x 4.41" x 0.55")
<b>Warranty</b>	3 year limited warranty

### Ordering Information

<b>BM-120MCC-20</b>	100BaseFX (SC) to 100BaseFX SM, up to 20KM
<b>BM-120MTC-20</b>	100BaseFX(ST) to 100BaseFX SM, up to 20KM
<b>BM-120MCC-(40/60)</b>	100BaseFX(SC) to 100BaseFX SM, up to 40/60 Km <b>(special order)</b>
<b>BM-120MTC-(40/60)</b>	100BaseFX(ST) to 100BaseFX SM, up to 40/60 Km <b>(special order)</b>

## 10/100Mbps BIDIRECTIONAL SINGLE FIBER MEDIA CONVERTER

### Overview

BL-150C can convert the electric signal of 10/100Base-TX twisted pair signal and 100Base-Fx optical signals. Bidirectional communication achieved through a single fiber boosts the utilization rate of optical network and greatly reduces the number of fibers used. This extends the limit of network transmission range up to 40Km (only through one single mode optical fiber). And the newly added function of lightning protection guarantees the safety of equipment.

### Key Features

- Single fiber bidirectional technology economizes optical fiber and lowers the cost of tailored construction
- BL-150C provides the adaptive function of 10/100M rate and full/half duplex significantly protects the existing network investment during network upgrade
- Unique buffer technology ensures the excellence of your network in data transmission and multimedia application.
- The transmission/receiving wavelength of one set is 1310/1550nm and on the other set is 1550/1310 nm: it must be used in matched pair



### Specifications

<b>Ethernet Standards</b>	IEEE802.3 10Base-T Ethernet standard IEEE802.3U 100Base-TX/FX fast Ethernet standard
<b>LED Display</b>	PWR: power indicator lamp FX LINK/ACT: optical link connecting/ active status indicator lamp TX LINK/ACT: electrical link connecting/ active status indicator lamp FX100: optical interface rate indicator lamp TX100: electrical interface rate indicator lamp FDX: full/half duplex indicator lamp
<b>Network Cable</b>	10/100Base-TX UTP Class 5 100Base-FX: single mode fiber 8.3/125, 8.7/125, 9/125 or 10/125 μm
<b>Interface Transmission Rate</b>	Optical interface: 100Mbps Electrical interface: 10/100Mbps
<b>Interface configuration</b>	One RJ45 10/100Base-TX interface One SC single mode duplex connector
<b>Operating Temp.</b>	0° C~ 70° C (32°F~158°F)
<b>Storage Temp.</b>	-45°C~ 80°C (-49° F~ 176°F)
<b>Humidity</b>	5%~ 90%
<b>Power</b>	Outside power supply: 5VDC 1A Consumption < 5W
<b>Warranty</b>	3 year limited warranty

### Ordering Information

<b>BL-150C-20</b>	10/100Base T-100 BaseFX Single Mode up to 20KM a pair <b>(special order)</b>
<b>BL-150C-40</b>	10/100Base T-100 BaseFX Single Mode up to 40KM a pair <b>(special order)</b>

## 10/100/1000-TX to 1000-FX SC MEDIA CONVERTER

### Overview

BM-1100TSC series is 10/100/1000Mbps intelligent adaptive fast Ethernet media converter. It is a cost effective way to expand your existing fiber infrastructure to the gigabit 1000Base T Ethernet networks. The BSD-1100TSC has a switching core that allows the fiber connection to operate at 1000Mbps when connected to 10Base, 100Base or 1000BaseT network



### Key Features

- Accomplishes from 10/100/1000Base-T to 1000Base-SX/LX (SC)
- Supports: full duplex and half duplex transmission and capable of automatic negotiation.
- Built-in switching core, to implement flow control and reduce broadcast packets.
- Supports the transmission of extra-long packets over VLAN
- Used as standalone or in a chassis **BM-1400R**

### Specifications

<b>Standards</b>	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX Gigabit Ethernet IEEE802.1qVLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
<b>LED Reports</b>	POWER (power), FX LINK (fiber link action), TP LINK1000 (twisted pair connection 1000M), TP LINK100 (twisted pair connection 100M), TP ACT (twisted pair packet forwarding action)
<b>Transmission Distance</b>	2 km (1310nm) multimode, 10/20 /40/80Km )single mode
<b>Port</b>	One RJ45 port: Connected to STP/UTP category-5 twisted pairs One dual-fiber port: multi-mode SC (fiber size: 50,62.5/125µm ) One dual fiber single mode SC (fiber size 9/125 µm )
<b>Conversion Mode</b>	Medium Conversion
<b>Delay</b>	<10µs
<b>Bit Error Rate</b>	<1/1000000000
<b>MTBF</b>	100,000 hours
<b>Power requirement</b>	100 ~220VAC, 50~60Hz .2A
<b>Power Consumption</b>	5W
<b>Operating Temp.</b>	-10 °C ~ 55 °C (14~131°F)
<b>Net Weight</b>	~ 508g
<b>Humidity</b>	5% - 90% (non condensing)
<b>Dimensions</b>	70 x 26 x 94 (WxHxD) mm.
<b>Warranty</b>	3 year limited warranty

### Ordering Information

<b>BM-1100TSC</b>	10/100/1000Base-T to 1000Base-SX (SC) Multi Mode Media Converter 2km
<b>BM-1100TSC-20</b>	10/100/1000Base-T to 1000Base-SX (SC) Single Mode Media Converter 20km <b>(longer distance special order)</b>

## 10/100/1000-TX to 1000-SX/LX MEDIA CONVERTER WITH SFP SLOT

### Overview

BM-1100LC-SFP Gigabit Ethernet 10/100/1000Base-T to 1000Base-SX/LX converter from BSD is designed to fit the emerging deployment needs of optical fiber network. This converter allows you extend a copper based fast Network via fiber connection to a maximum distance 80KM. BM-1100LC-SFP is fully compliant with IEEE 802.3U & 802.3 standards. The installation & operation procedures of this converter are simple & straightforward. User can monitor the real time operation status easily via a set of LEDs located in the front panel.



### Specifications

<b>Access mode</b>	10/100/1000Mbps Gigabit Ethernet to 1000Base-FX Converter
<b>Standard</b>	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX Gigabit Ethernet, IEEE802.1q VLAN, IEEE802.1p IEEE802.1d Spanning Tree
<b>Transmission distance</b>	1000Base Multi-mode: 2km (fiber size: 62.5/125µm) 1000Base Single-mode: 20 up to 80km
<b>Interface</b>	One RJ45 connector + one expansion SFP Slot LC Connector
<b>Delay</b>	< 10µs
<b>Bit error rate</b>	< 1/1000000000
<b>MTBF</b>	100,000 hours
<b>LED</b>	POWER (power), FX LINK (fiber link action), TP LINK1000 (twisted pair connection 1000M), TP LINK100 (twisted pair connection 100M), TP ACT (twisted pair packet forwarding action), FDX (Full -Half Duplex)
<b>Power</b>	110-265V external power supply DC5V 2A
<b>Power consumption</b>	5W
<b>Operating temperature</b>	0~60°C
<b>Operating humidity</b>	5%~90%
<b>Storage temperature</b>	- 40~70°C
<b>Storage humidity</b>	5%~90% (non-condensing)
<b>Dimensions</b>	22 x 71 x 94 mm (HxWxD)

### Ordering Information

<b>BM-1100LC-SFP</b>	Gigabit Ethernet 10/100/1000Base-T to 1000Base-SX/LX Converter (SFP Slot)
<b>BSD-SFPGLC</b>	SFP, 1.25Gbps, 1310nm, 3.3V 1000Base-FX MM 2 km SFP Module
<b>BSD-SFPGLC-20</b>	SFP, 1.25Gbps, 1310nm, 3.3V 1000Base-LX SM 20 km SFP Module ( <b>longer distance special order</b> )

## 1.25 Gbps 1000BASE SFP MODULES

### Overview

The SFP transceiver supports 20+km transmission distance with SMF and 2km with MMF. It is also available the version SX with 500m on MMF.

The transceiver consists of two sections: the transmitter section incorporates a FP laser. The receiver section consists of a PIN photodiode integrated with a trans-impedance pre-amplifier (TIA). All modules satisfy class I laser safety requirements. The optical output can be disabled by a TTL logic high-level input of TX Disable. TX Fault indicates the degradation of the laser. Loss of signal (LOS) output indicates the loss of an input optical signal of receiver. It is used in Telecom and Ethernet application

### Key Features

- SFP package with LC connector
- 1310nm (850nm on SX version) FP laser and PIN photo detector
- 2km transmission with MMF (500m on SX version)
- 20+Km transmission with SMF
- +3.3V single power supply
- LVPECL compatible data input/output interface
- Low EMI and excellent ESD protection
- Laser safety standard IEC-60825 compliant
- Compatible with RoHS
- **Cisco, Nortel, 3Com, HP, Avaya coding available (Please enquire for other brands)**



### Specifications

Parameter	Minimum	Maximum	Unit
Storage Temperature(TST)	-40	+85	°C
Operating Temperature(TOP)	0	+70	°C
Supply Voltage(VCC)	0	+3.6	V
Input voltage (VIN)	GND	VCC	
Supply Voltage (VCC)	3.15	3.45	V
Operating Relative Humidity	5	95	%

### Ordering Information (Main brands coding available)

<b>BSD-SFPGLC(SX)</b>	SFP, 1.25Gbps, 850nm, 3.3V 1000Base-FX Multi mode SFP Module, 500m
<b>BSD-SFPGLC</b>	SFP, 1.25Gbps, 1310nm, 3.3V 1000Base-FX Multi mode SFP Module, 2km
<b>BSD-SFPGLC-20</b>	SFP, 1.25Gbps, 1310nm, 3.3V 1000Base-FX Single mode SFP Module, 20km <b>(Longer distance special order)</b>

## 1.25 Gbps 1000BASE SFP WIDE TEMPERATURE MODULES



### Overview

BSD Small Form Factor Pluggable (SFP) transceivers are compatible with the Small Form Factor Pluggable Multi-Sourcing Agreement (MSA). They simultaneously comply with Gigabit Ethernet as specified in IEEE STD 802.3 and 1x Fiber Channel as defined in FC-PI-2 Rev. 10.0 .They are RoHS compliant and lead-free.

**Cisco, HP and other brands coding available. (Please enquire for other brands)**

### Ratings

Parameter	Symbol	Min	Typ	Max	Unit
Maximum Supply Voltage	Vcc	0		+3.6	V
Storage Temperature	TS	-40		85	°C
Case Operating Temperature	TOP	-40		85	°C
Relative Humidity	RH	5		95	%

### Electrical Characteristics

Parameter	Symbol	Min	Typ	Max	Unit
Supply Voltage	Vcc	3.15		3.45	V
Supply Current	Icc		180	300	mA
<b>Transmitter</b>					
Input differential impedance	Rin		100		Ω
Single ended data input swing	Vin, pp	250		1200	mV
Transmit Disable Voltage	VD	Vcc – 1.3		Vcc	V
Transmit Enable Voltage	VEN	Vee		Vee+ 0.8	V
Transmit Disable Assert Time				10	us
<b>Receiver</b>					
Single ended data output swing	Vout, pp	300	400	800	mV
Data output rise time	tr			260	ps
Data output fall time	tf			260	ps
LOS Fault	VLOS fault	Vcc – 0.5		VccHOST	V
LOS Normal	VLOS norm	Vee		Vee+0.5	V
Deterministic Jitter Contribution	RXΔDJ			80	ps
Total Jitter Contribution	RXΔTJ			122.4	ps

### Key Features

- Up to 1.25Gb/s dual data links
- Hot-pluggable SFP footprint
- 850 nm VCSEL Laser and PIN photo detector; 1310nm Fabry-Perot laser transmitter
- Duplex LC connector
- Up to 550m on 50/125µm ; up to 20 km on 9/125 µm on a SMF
- Metal enclosure for lower EMI
- Single 3.3V power supply
- Low power dissipation <700mW
- Industrial operating temperature range: **-40°C to 85°C (-40 to 185°F)**

### Ordering Information - DDM available (add DDM to the part number)

<b>BSD-SFPWGLC(SX)</b>	SFP, 1.25Gbps, 1310nm, 3.3V 1000Base-FX Multi Mode SFP Module, 550m Wide temperature (-40 to 85°C)
<b>BSD-SFPWGLC-20</b>	SFP, 1.25Gbps, 1310nm, 3.3V 1000Base-FX Single Mode SFP Module, 20km Wide temperature (-40 to 85°C) <b>Other distances available</b>

## 1.25 Gbps 1000BASE SFP MODULES WIDE TEMPERATURE



### Overview

BSD Small Form Factor Pluggable (SFP) transceivers are compatible with the Small Form Factor Pluggable Multi-Sourcing Agreement (MSA). They simultaneously comply with Gigabit Ethernet as specified in IEEE STD 802.3 and 1x Fiber Channel as defined in FC-PI-2 Rev. 10.0. They are RoHS compliant and lead-free.

**Cisco, Nortel, Avaya, 3Com, HP coding available.**  
(Please enquire for other brands)

### Key Features

- Up to 1.25Gb/s dual data links
- Hot-pluggable SFP footprint
- 1550nm DFB laser transmitter
- Duplex LC connector
- Up to 80 km on 9/125
- Metal enclosure for lower EMI
- Single 3.3V power supply
- Low power dissipation <700mW
- **Operating temperature range: -40°C to 85°C**

### Ratings

Parameter	Symbol	Min	Typ	Max	Unit	Ref.
Maximum Supply Voltage	Vcc	-0.5		4.0	V	
Storage Temperature	TS	-40		100	°C	
Case Operating Temperature	TOP	-40		85	°C	
Relative Humidity	RH	0		85	%	1

### Electrical Characteristics

Parameter	Symbol	Min	Typ	Max	Unit	Ref.
Supply Voltage	Vcc	3.00		3.60	V	
Supply Current	Icc		180	300	mA	
<b>Transmitter</b>						
Input differential impedance	Rin		100		Ω	2
Single ended data input swing	Vin, pp	250		1200	mV	
Transmit Disable Voltage	VD	Vcc - 1.3		Vcc	V	
Transmit Enable Voltage	VEN	Vee		Vee+ 0.8	V	
Transmit Disable Assert Time				10	us	
<b>Receiver</b>						
Single ended data output swing	Vout, pp	300	400	800	mV	3
Data output rise time	tr			260	ps	4
Data output fall time	tf			260	ps	4
LOS Fault	VLOS fault	Vcc - 0.5		VccHOST	V	5
LOS Normal	VLOS norm	Vee		Vee+0.5	V	5
Deterministic Jitter Contribution	RXΔDJ			80	ps	6
Total Jitter Contribution	RXΔTJ			122.4	ps	

### Ordering Information

<b>BSD-SFPWGLC-80</b>	SFP, 1.25Gbps, 1550nm, 3.3V 1000Base-FX Single mode SFP Module, 80km <b>Wide temperature (-40 to 85°C)</b> <b>DDM available (add DDM to the part #)</b>
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## 10G SFP MODULES MULTI MODE

### Overview

The BSD-SFP851 transceiver is designed for 10Gb/s serial optical interfaces for data communications with multimode fiber (MMF)850nm. The transceiver can support 1.25 Gb/s to 11.1Gb/s. It is designed to optimize high performance and it is costly effective for customers' solution in datacom and storage applications.

### Key Features

- Hot pluggable
- 10Gb/s serial optical interface
- Up to 300m on 50/125um MMF (2000MHZ km)
- Compliant with SFP+MSA
- SFP MSA package with duplex LC connector
- Digital Diagnostic Monitor Interface
- Very low EMI and excellent ESD protection
- High transmission margin
- +3.3V single power supply
- Below 1W power consumption
- SFP mechanical interface
- Wide data-rate range
- SFP-8472 reversion 9.5 compliant
- IEEE802.3-2005 compliant
- Telcordia GR-468-CORE compliant
- FCC47 CFR Part 15, Class B compliant
- FDA 21CFR 1040.10 and 1040.11, class 1 compliant
- **CISCO and other brands coding available**



### Specifications

Parameter	Minimum	Maximum	Unit
Storage Temperature(TST)	-40	+85	°C
Operating Temperature(TOP)	0	+70	°C
Supply Voltage(VCC)	-0.5	4.0	V
Supply Current (Icc)		300	mA
Data rate Ethernet			10.3125Gb/s
Data rate Fiber channel			10.518Gb/s
Operating Relative Humidity	5	85	%

### Ordering Information

<b>BSD-SFP851</b>	10G 850nm, SFP Module,MM 300m
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## 8G/10G SFP MODULES SINGLE MODE

### Overview

The BSD-SFP851 transceiver is designed for 10Gb/s serial optical interfaces for data communications with single mode fiber (SMF) 1310nm. The transceiver can support 1.25 Gb/s to 11.1Gb/s. It is designed to optimize high performance and it is costly effective for customers' solution in datacom.

### Key Features

- Hot pluggable
- 10Gb/s serial optical interface (also available 8 Gb/s)
- Up to 10 km distance
- Compliant with SFP+MSA
- SFP MSA package with duplex LC connector
- Digital Diagnostic Monitor Interface
- Very low EMI and excellent ESD protection
- High transmission margin
- +3.3V single power supply
- Below 1.5W power consumption
- SFP mechanical interface
- Wide data-rate range
- SFP-8472 reversion 9.5 compliant
- IEEE802.3-2005 compliant
- Telcordia GR-468-CORE compliant
- FCC47 CFR Part 15, Class B compliant
- FDA 21CFR 1040.10 and 1040.11, class 1 compliant
- **CISCO and other brands coding available**



### Specifications

Parameter	Minimum	Maximum	Unit
Storage Temperature(TST)	-40	+85	°C
Operating Temperature(TOP)	0	+70	°C
Supply Voltage(VCC)	-0.5	4.0	V
Supply Current (Icc)		400	mA
Data rate LR			10.3125Gb/s
Data rate LW			9.953Gb/s
Operating Relative Humidity	5	85	%

### Ordering Information

<b>BSD-SFP311/8G</b>	SFP, 8G 1310nm SFP Module, SM 10km
<b>BSD-SFP311</b>	SFP, 10G 1310nm SFP Module, SM 10km

## 14 SLOT CHASSIS WITH REDUNDANT POWER

### Overview

The BM-1400R is a chassis that can hold 14 different standard media converters. It is rack mountable and has redundant power

### Key Features

- House up to fourteen 10/100 Media Converters.
- Front Panel LED's for power and working status.
- Standard 19" Rack mount Size,
- Non-Stop Operation & Minimal Downtime.
- HOT-SWAPPABLE Media Converters and Redundant PSU with fans.
- Adequate Ventilation.
- Provides two cooling fans on the right side.
- Ventilation holes on each side.
- Power Redundancy & Power Isolation: two high quality internal power supplies provided for load-sharing purpose.
- Load sharing mechanism: if one power supply should fail, the redundant power supply is capable of taking over immediately.
- Converter bay power isolation ensures each bay is electrically isolated from each other.
- Over Current Protection: Fuses on PCB for each converter bay.
- Fuse on each power supply.



### Specifications

<b>Capacity:</b>	Fourteen media converter bays
<b>Material:</b>	Aluminum/Steel
<b>Power:</b>	Two hot-swappable redundant PSU slots
<b>Cooling:</b>	Two power supplies with fans Two fans on the right side of the chassis
<b>LED:</b>	2 LED's (1 LED each for PSU's power status)
<b>Dimensions:</b>	W485 mm x D231 mm x H90 mm, Standard 19" size, 2U
<b>Weight</b>	8.5kg approx. (Fully fitted with fourteen media converters)
<b>Power Input:</b>	110~240Vac, 50~60Hz or -48Vdc
<b>Power Output:</b>	DC 5V, 20A
<b>Load:</b>	7A max.
<b>Operating Temperature:</b>	0 C ~ 50 °C (32 F ~ 122 °F)
<b>Storage Temperature:</b>	-20° C ~ 85 °C (-4° ~ 185° F)
<b>Emissions Compliance:</b>	CE Class A, FCC part 15 Class A
<b>Warranty</b>	3 year limited

### Ordering Information

<b>BMC-1400R</b>	14 slot media converter chassis supporting standalone converters
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## 8 10/100TX PORT ETHERNET SWITCH



### Key Features

- Provides 8 ports for 10/100Base-T/TX, using standard RJ-45 connectors.
- One uplink port activated by a push button.
- Plug-and-play
- Auto-negotiation for speed and duplicity
- True non-blocking architecture.
- Full wire-speed forwarding rate.
- Store-and forward mechanism.
- Back-pressure and IEEE 802.3x compliant flow control.
- Supports 1K MAC address.
- Front panel status LEDs.
- Palm size.

### Specifications

<b>Ethernet Standards</b>	IEEE802.3 10BASE-T Ethernet IEEE802.3u 100BASE-TX Fast Ethernet, IEEE 802.3X 10Base-TX fast Ethernet
<b>LED Reports</b>	8 Ports: Link/Act &100M LEDs, Power: Power LED
<b>Cable</b>	10Base-T 2-pair UTP Cat. 3, 4, 5, Up to 100 m (328 ft), 100BASE-TX 2-pair UTP Cat. 5, Up to 100 m (328 ft)
<b>Switching Methods</b>	Store-and-Forward
<b>Forwarding Rate</b>	14,880pps for 10Mbps; 148,800pps for 100Mbps
<b>AC Input</b>	100 ~120VAC or 200~240VAC, 50~60Hz External Universal PSU
<b>Input / Power Consumption</b>	DC5V/2A2A/ 5W max
<b>Net Weight</b>	1lb
<b>Operating Temp.</b>	0 °C - 50 °C (32°F~122°F)
<b>Storage Temp.</b>	-40° - 70° (-40°F ~ 158°F)
<b>Humidity</b>	15% - 95% non-condensing
<b>Dimensions</b>	W140mm xD78 mm xH28 mm
<b>Warranty</b>	1 year limited warranty

### Ordering Information

<b>BES-8M</b>	8 port 10/100TX Ethernet Switch
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## 24 10/100-TX PORT FAST ETHERNET SWITCH

### Key Features

- IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX Fast Ethernet and ANSI/IEEE802.3 Nway Auto-negotiation
- Supports half and full Duplex mode on each port
- Auto-negotiation between 10Mbps and 100 Mbps speeds
- Auto-MDI/MDIX detect on all ports for network expansion
- Wire-speed filtering/forwarding rates
- Store and Forward switching architecture
- Integrated address look up Engine
- LEDs for Power, Speed, Link, Activity, Duplex, Collision
- Supports Broadcast storm protection
- Supports IEEE802.3x flow control for half-duplex and back pressure flow control for full-duplex
- Designed in standard 19" Rack-mount metal case
- Powered by internal Switching Power Supply



### Specifications

<b>Standards Ethernet</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet ANSI/IEEE 802.3 Nway Auto Negotiation
<b>Data Transfers Rate</b>	10/100Mbps (half-duplex) 20/200Mbps (full-duplex)
<b>Switching Architecture</b>	Store and Forward
<b>Hub to Hub Cascading</b>	Auto-MDI/MDIX detect on all ports
<b>Cable length</b>	Shielded/unshielded Twisted Pair (STU/UTP) Category 3,4,5: 100m
<b>Temperature</b>	Operating: 0 to 50°C Storage: -10 to 70°C
<b>Humidity</b>	10% to 90% Non-condensing
<b>Mac Address</b>	8K entries
<b>Filtering and Forwarding Rate</b>	14,800 pps at 10Mbps 148,000 pps at 100Mbps
<b>Led Report</b>	Power, Link/Activity, Speed, Collision/FDX
<b>Power Source</b>	Internal Switching 100 – 240VAC 50 – 60Hz
<b>Ram Buffer</b>	2.5Mbytes
<b>Protocol</b>	CSMA/CD
<b>Dimensions</b>	440 x 210 x 44mm (W x D x H)
<b>Emission</b>	FCC part 15 Class A, CE class A and VCCI-A
<b>Weight</b>	2.50Kg (5.51lb)
<b>Safety</b>	UL, CUL and TUV
<b>Warranty</b>	1 year limited

### Ordering Information

<b>BES-2400</b>	24 Ports 10/100 Nway Fast Ethernet Switch
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## 7 10/100-TX + 1 100-FX PORT FIBER SWITCH



### Key Features

- 7 ports for 10/100Base-TX + 1 port 100Base-FX.
- Features Auto-MDIX on all TX ports.
- TX ports auto-negotiate for speed and duplexity.
- Choices of SC, ST, connectors for FX ports.
- Broadcast storming filter function.
- True Non-Blocking Architecture.
- Full wire-speed forwarding rate.
- Store-and-forward mechanism.
- Back pressure and IEEE802.3x Compliant Flow Control.
- Supports 2K MAC addresses.
- Supports 1M bits buffer memory.
- Front panel power & port status LEDs
- Compact size

### Specifications

<b>Ethernet Standards</b>	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, 100BASE-FX
<b>LED Reports</b>	Per Unit – Power Status (1LED), Per Port – LNK/ACT (1 LED)
<b>Cable</b>	10Base-T-----2-pair UTP Cat. 3, 4, 5, Up to 100 m (328 ft) 100BASE-TX 2-pair UTP Cat. 5, Up to 100 m (328 ft) 100BASE-FX---62.5/1 25UM MULTI-MODE FIBER OPTIC CABLE, UP TO 2KM 10/1 25UM SINGLE-MODE FIBER OPTIC CABLE,
<b>Forwarding Rate</b>	14,880pps for 10Mbps; 148,800pps for 100Mbps
<b>Power</b>	3.3VDC, 2.5A External Universal Power Supply
<b>Operating Temp.</b>	0 °C - 40 °C (32°F~104°F)
<b>Storage Temp.</b>	-25° - 70° (-13°F ~ 158°F)
<b>Humidity</b>	10% - 100% non-condensing
<b>Emission &amp; Compliance</b>	CE & FCC
<b>Dimensions</b>	252mm x 134.3 mm x 35mm Compact Size
<b>Warranty</b>	1 year limited

### Ordering Information

<b>BSF-1608PBFC1</b>	7 port 10/100Base-TX (RJ45) & 1 port 100Base-FX (SC) MM 2km
<b>BSF-1608PBFT1</b>	7 port 10/100Base-TX (RJ45) & 1 port 100Base-FX (ST) MM 2km
<b>BSF-1608PBFC1-20</b>	7 port 10/100Base-TX (RJ45) & 1 port 100Base-FX )(SC) SM 20km ( <b>special order</b> )

## MODULAR 8 100BASE PORT FIBER SWITCH

### Key Features

- In conformity to IEEE 802.3 10 Base-T standard.
- In conformity to IEEE 802.3u 100 Base-TX/FX standard.
- Built in 1.625Mb RAM for data buffer.
- Back pressure flow control for full duplex IEEE802.3 X and half duplex.
- Automatic identification of MDI/MDI-X cross line.
- Supports packet length up to 1600 Bytes.
- Provide up to 4K MAC address entries.
- Supports Class of Service.
- Broadcast storm control support.
- In conformity to safety code of FCC and 15 CLASS A and CE MARK.
- Power input: 110-265V AC.
- User can select TP module or Fiber module SC and ST
- Front panel port utilization and status LEDs
- Standard 19" rack-mount size



**NEW VERSION**

### Specifications

<b>Ethernet Standards</b>	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX/FX
<b>LED RePorts</b>	Per module: Uplink & Power Status (2 LEDs), COL/DUP for Half /Full Duplex (2 LEDs), PWR1/PWR2 for power failure (2 LEDs)
<b>Cable</b>	10Base-T 2-pair UTP Cat. 3, 4, 5, Up to 100m (328 ft), 100Base-TX 2-pair UTP Cat. 5, Up to 100m (328 ft) 100Base-FX 62.5/125 multi-mode fiber optic cable, up to 2km
<b>Switching Methods</b>	Store-and-Forward
<b>Forwarding Rate</b>	14,880pps for 10Mbps; 148,800pps for 100Mbps
<b>AC Input</b>	100 ~ 265 V AC
<b>Input Fuse</b>	2A
<b>Power Consumption</b>	3 W
<b>Operating Temp.</b>	0 °C - 60 °C (32°F~140°F)
<b>Storage Temp.</b>	-25° - 70° (-13°F ~ 158°F)
<b>Humidity</b>	5% - 90% non-condensing
<b>Dimensions</b>	440 x 200 x 45 mm (D x W x H)
<b>Warranty</b>	1 year limited

### Ordering Information

<b>BSF-M1608FC4</b>	4 Port 10/100TX + 4 Port 100FX, Multi mode (SC) 2 KM 19" Modular Switch
<b>BSF-M1608FT4</b>	4 Port 10/100TX + 4 Port 100FX, Multi Mode (ST) 2 KM 19" Modular Switch
<b>BSF-M1608FC6</b>	2 Port 10/100TX + 6 Port 100FX, Multi Mode (SC) 2KM 19" Modular Switch
<b>BSF-M1608FT6</b>	2 Port 10/100TX + 6 Port 100FX, Multi Mode (ST) 2KM 19" Modular Switch
<b>BSF-M1608FC8</b>	8 Port 100FX, Multi-Mode (SC) 2KM 19" Modular Switch
<b>BSF-M1608FT8</b>	8 Port 100FX, Multi-Mode (ST) 2KM 19" Modular Switch

## 24 100BASE +2 GIGABIT PORT FIBER SWITCH



### Key Features

- Fully compliant with IEEE802.3 standard
- Twenty-four 100Mbps Fiber ports
- Provides two independent extension slots support 10/100/1000Mbps Gigabit
- Module card Supports IEEE802.3x flow control for full-duplex mode and collision-based backpressure for half-duplex mode
- Supports the port N-Way auto-negotiation function, automatically negotiate the speed and duplex mode between two devices
- Provides port-based VLAN and IEEE802.1Q VLAN
- Provides port-based Trunk group function
- Provides the configuration function of port security, broadcast storm control and 802.1p Priority \*
- Provides IGMP snooping function
- Supports static priority and IEEE802.1p class of service with 2-level priority mode
- Provides RMT management

### Specifications

<b>Standard</b>	IEEE802.3 10BASE-T Ethernet IEEE802.3u 100BASE-TX /Fx Fast-Ethernet IEEE802.3ab 1000BASE-T 1000M-Ethernet IEEE802.3x
<b>Protocol</b>	CSMA/CD
<b>Transmission Rate</b>	Ethernet 10Mbps half-duplex 20Mbps full-duplex Fast-Ethernet 100Mbps half-duplex 200Mbps full-duplex
<b>Network Cable</b>	10BASE-T: Category 3,4 or 5 UTP/STP (Max: 100m) EIA/TIA- 568 100 STP (Max:100m) 100BASE-TX: 2pairs of category 5 UTP (Max: 100m) EIA/TIA- 568 100 STP (Max:100m) 100BASE-FX: MMF (maximum 2000m) SMF (maximum 20~60Km) 1000BASE-TX: Category 5 UTP/STP (Max: 100m)
<b>Dimensions( W x D x H)</b>	440 x 207 x 43mm (17.32 x 8.14 x 1.69 inches)
<b>Input Voltage</b>	AC100V-AC240V (50-60HZ)
<b>Storage Temperature</b>	-30° C ~60°C (-22°F ~ 140 °F)
<b>Humidity</b>	5%~95% no coagulation
<b>Ports</b>	Twenty-four Fiber ports + Two Gigabit ports
<b>Operational Temperature</b>	0°C ~50 ° C (32° F~ 122° F)
<b>Warranty</b>	1 year limited

### Ordering Information

<b>BSF-3026M</b>	Twenty-four 100 Fiber Port + two 10/100/1000 Gigabit Port Switch <b>Special order</b>
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## 8 10/100/1000-TX PORT SWITCH

### Overview

BSG-0800T 8-port Gigabit Ethernet Switch provides you with a high-performance, low-cost, easy-to-use, upgrade to improve old network to 1000Mbps network. Increase the speed of your network server at home, office, workgroup. It transfers graphics, CGI, CAD, or multimedia files and other applications that have to move large files across the network almost instantly.

### Key Features

- Supports IEEE 802.3x flow control for Full Duplex mode and backpressure for Half Duplex mode
- Non-blocking switching architecture that forwards and filters packets at full wire-speed for maximum throughput
- Supports MAC address auto-learning and auto-aging
- LED indicators for monitoring power, link, activity
- Plastic case, desktop or wall-mounting design
- External power adapter supply



### Specifications

<b>Standards and Protocols</b>	IEEE802.3, 802.3u, 802.3ab, 802.3x CSMA/CD, TCP/IP
<b>Basic Function</b>	Wire-speed Performance MAC Address Auto-Learning and Auto-aging IEEE802.3x flow control for Full-Duplex Mode and backpressure for Half-Duplex Mode
<b>Bandwidth</b>	16Gbps
<b>MAC Address Table</b>	4k
<b>Forwarding Rate</b>	10BASE-T: 14880pps/port 100BASE-TX: 148800pps/port 1000BASE-T: 1488000pps/port
<b>Transmission Method</b>	Store-and-Forward
<b>Ports</b>	8 10/100/1000Mbps Auto-Negotiation RJ45 ports (Auto MDI/MDIX)
<b>Network Media</b>	10Base-T: UTP category 3, 4, 5 cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 100Base-Tx: UTP category 5, 5e cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 1000Base-T: UTP category 5, 5e cable (maximum 100m)
<b>LED Indicators</b>	Power, 10/100M, 1000M
<b>Safety &amp; Emission</b>	FCC, CE
<b>Dimensions (W*D*H)</b>	7.9*5.5*1.1 in. (200*140*28 mm)
<b>Environment</b>	Operating Temperature: 0°C~40°C (32°F~104°F) Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~90% non-condensing
<b>Power</b>	External Power Adapter

### Ordering Information

<b>BSG-0800T</b>	8 port 1000T Palm Size Gigabit Switch
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## 16 10/100/1000-TX PORT SWITCH H

### Overview

BSG-1600T is a specially designed switch for Ethernet (10Mbps), Fast Ethernet (100Mbps) and Gigabit Ethernet (1000Mbps). Each port supports up to 2000Mbps throughput in full duplex mode. It is the perfect choice to improve the performance of Office and Workgroup networks.

### Key Features

- 16 10/100/1000 RJ45 Ports
- Supports MAC address self learning and auto MDI/MDIX
- Standard 19" rack mountable chassis
- All ports support Full/half duplex transfer mode for 10Mbps/100Mbps and Full duplex transfer mode for 1000Mbps
- Supports IEEE 802.3X flow control for full-duplex mode and back pressure flow control for half-duplex mode
- Store and forward switching scheme



### Specifications

<b>Standards and Protocols</b>	IEEE802.3, 802.3u, 802.3ab, 802.3x CSMA/CD, TCP/IP
<b>Basic Function</b>	Wire-speed Performance MAC Address Auto-Learning and Auto-aging IEEE802.3x flow control for Full-Duplex Mode and backpressure for Half-Duplex Mode
<b>Bandwidth</b>	32Gbps
<b>MAC Address Table</b>	8k
<b>Forwarding Rate</b>	10BASE-T: 14880pps/port 100BASE-TX: 148800pps/port 1000BASE-T: 1488000pps/port
<b>Transmission Method</b>	Store-and-Forward
<b>Ports</b>	16 10/100/1000Mbps Auto-Negotiation RJ45 ports (Auto MDI/MDIX)
<b>Network Media</b>	10Base-T: UTP category 3, 4, 5 cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 100Base-Tx: UTP category 5, 5e cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 1000Base-T: UTP category 5, 5e cable (maximum 100m)
<b>LED Indicators</b>	Power, Link/Act
<b>Safety &amp; Emission</b>	FCC, CE
<b>Dimensions (W*D*H)</b>	17.3*7.1*1.7 in. (440*180*44 mm)
<b>Environment</b>	Operating Temperature: 0°C~40°C (32°F~104°F) Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~90% non-condensing
<b>Power</b>	100-240VAC, 50/60Hz

### Ordering Information

<b>BSG-1600T</b>	16 port Gigabit Ethernet Switch
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## 24 10/10/1000-TX PORT SWITCH

### Overview

BSD continues to strengthen the market transition to Gigabit Ethernet with the addition of BSG-2400T to its Gigabit Switch product line. BSG-2400T, BSD's new Gigabit switch is especially designed for small and medium businesses to meet their heavy load demands, such as graphic or multimedia files transmission.

### Key Features

- 24 10/100/1000M RJ45 ports.
- Standard 19-inch rack-mountable steel case
- Supports MAC address self-learning and auto MDI/MDIX.
- All ports support Full/half duplex transfer mode for 10Mbps/100Mbps and Full duplex transfer mode for 1000Mbps
- Supports IEEE 802.3X flow control for full-duplex mode and back pressure flow control for half-duplex mode
- Store and forward switching scheme



### Specifications

<b>Standards and Protocols</b>	IEEE802.3, 802.3u, 802.3ab, 802.3x CSMA/CD, TCP/IP
<b>Basic Function</b>	Wire-speed Performance MAC Address Auto-Learning and Auto-aging IEEE802.3x flow control for Full-Duplex Mode and backpressure for Half-Duplex Mode
<b>Bandwidth</b>	48Gbps
<b>MAC Address Table</b>	8k
<b>Forwarding Rate</b>	10BASE-T: 14880pps/port 100BASE-TX: 148800pps/port 1000BASE-T: 1488000pps/port
<b>Transmission Method</b>	Store-and-Forward
<b>Ports</b>	24 10/100/1000Mbps Auto-Negotiation RJ45 ports (Auto MDI/MDIX)
<b>Network Media</b>	10Base-T: UTP category 3, 4, 5 cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 100Base-Tx: UTP category 5, 5e cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 1000Base-T: UTP category 5, 5e cable (maximum 100m)
<b>LED Indicators</b>	Power, Link/Act
<b>Safety &amp; Emission</b>	FCC, CE
<b>Dimensions (W*D*H)</b>	17.3*7.1*1.7 in. (440*180*44 mm)
<b>Environment</b>	Operating Temperature: 0°C~40°C (32°F~104°F) Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~90% non-condensing
<b>Power</b>	100-240VAC, 50/60Hz

### Ordering Information

<b>BSG-2400T</b>	24 port 1000 Gigabit Ethernet Switch
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## 24 10/100-TX +2 GIGABIT PORT MANAGED SWITCH WITH 2 SFP EXPANSION SLOTS

### Overview

The BSG-2224S gigabit uplink managed switch fully complies with IEEE 802.3/802.3u/802.3ab/802.3z Ethernet standards. It provides 24 10/100Mbps UTP/STP RJ45 ports with auto-MDI/MDIX and 2 SFP shared expansion slots supporting MiniGBIC modules. It also provides management functions including SNMP, Web and Telnet/Console.

### Key Features

- Supports SNMP, Web and Telnet/Console management
- Supports SNMPv1, SNMPv2c, SNMPv3
- Supports SNMP MIB-II, Ethernet-like MIB and Bridge MIB
- Supports RMON statistics, history, alarm and event group
- Supports GARP and GVRP
- Supports IEEE 802.1X Port-Based Network Access Control protocol and connect to RADIUS
- Supports 28 Port-Based VLANs and 256 IEEE 802.1Q Tag VLANs
- Supports IEEE 802.3ad port trunk with LACP
- Supports Static MAC address and filtering MAC address management
- Supports Static Port Priority and IEEE 802.1p Priority , supports 4 Priority Queues and ingress policing
- Supports the configuration function of Port Security, Broadcast Storm Control and Port Mirroring
- Supports IEEE 802.1D Spanning Tree protocol
- Supports non-head-of-line blocking forwarding
- Supports IGMP Snooping function
- Supports SNMP, Web-based, Telnet, Console management
- Supports firmware upgrade, configuration backed up and restored
- Rack-mountable steel case
- Internal power supply



### Hardware Specifications

<b>Ports</b>	24 10/100Mbps Auto-Negotiation RJ45 ports (Auto MDI/MDIX)
	2 Gigabit SFP ports (shared with port 23, 24)
<b>Network Media</b>	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 100BASE-TX/1000Base-T: UTP category 5, 5e cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 1000BASE-X: MMF, SMF
<b>LED Indicators</b>	Power, System, Link/Act, 1000M,
<b>Safety &amp; Emission</b>	FCC, CE
<b>Dimensions (W*D*H)</b>	17.3x10.2x1.7 in. (440x260x44 mm)
<b>Environment</b>	Operating Temperature: 0°C~40°C (32°F~104°F) Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~90% non-condensing
<b>Power</b>	100-240VAC, 50/60Hz

## Software specifications

<b>Standards and Protocols</b>	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3ad, 802.3x, 802.1d, 802.1s, 802.1w, 802.1q, 802.1p, 802.1x, SNMP
<b>Basic Function</b>	MAC Address Auto-Learning and Auto-aging Storm Control (Broadcast, Multicast, Unknown unicast) Port Mirroring I
<b>MAC Address Table</b>	8k
<b>Switching Capacity</b>	12.8Gbps
<b>Transmission Method</b>	Store-and-Forward
<b>Priority</b>	Port-based Priority IEEE 802.1p based Priority: 4 Queues
<b>Link Aggregation</b>	IEEE 802.3ad LACP Link Aggregation
<b>Spanning Tree</b>	IEEE 802.1d Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1w Rapid Spanning Tree
<b>VLAN</b>	Port Based VLAN 802.1Q Tag-VLAN
<b>Management Access Control</b>	Based on Port Based on MAC Based on IP
<b>Security &amp; Authentication</b>	Port Security Static MAC Address Binding 802.1x port-based Access Control RADIUS TACACS+
<b>Network Management</b>	Telnet, CLI/Console, SSH v1/v2 Web (Http/Https), SSL SNMP v1/v2c/v3 SNMP MIB-II, Ethernet-like MIB and Bridge MIB RMON statistics, history, alarm and event group
<b>System Function</b>	Fixed IP Address Setting V CT (visual cable test ) System Log Port Flow Statistics TFTP Upgrade

## Ordering Information

<b>BSG-2224S</b>	24 10/100RJ45 + 2 Uplink Gigabit + 2 SFP expansion slot Managed Switch
<b>BSD-SFPGLC</b>	1.25Gbps 1310 nm 10000Base SFP module LC Multimode 2km
<b>BSD-SFPGLC-20</b>	1.25Gbps 1310 nm 10000Base SFP module LC Singlemode 20km