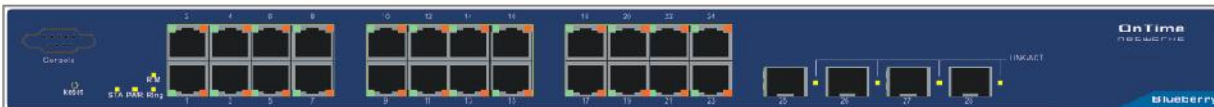




Blueberry 28 port gigabit managed PoE+ Industrial 19" Ethernet switch, BM-3900 series

Features

- 24 x 10/100/1000BASE-TX ports
- 4 x 1000BASE-X SFP ports
- PoE+ (30W) on all 24 x 10/100/1000BASE-TX ports
- Network redundancy: OnTime-Ring- or MSTP/RSTP/STP protocol
- Network management: Web, telnet, CLI and SNMP v1/v2/v3 with RMON
- Multicast filtering: IGMP snooping
- IEEE802.1Q VLAN
- Port trunking
- IP based bandwidth management
- QoS management
- Security based on authentication (IEEE802.1x) and IP police security
- Denial of Service (DoS) and Distributed Denial of Service (DDoS)auto prevention
- Jumbo frames up to 9kbytes
- Event notification: through Syslog, Email, and SNMP trap
- Wide operating temperature: [-10°C..60°C]
- AC power input AC (100-240VAC)
- Mounting: 19inch mounting



The PoE+ switches in the BM-3900 series offer full management based on HTTPS, telnet, CLI/SSH and SNMP. Network Redundancy is achieved based on the OnTime-Ring- (recovery time < 20ms over 250 units of connection) or MSTP/RSTP/STP (IEEE 802.1s/w/D) protocol. The switch is designed for industrial environments. The switch offers a wide operating temperature range, [-10°C..60°C]. Four of the ports are of gigabit SFP fiber type.

Up to four SFPs of the following types can be installed in the four SFP cages:

1000BASE-SX, 1000Mbps, multi-mode (850nm) LC connector – 550m

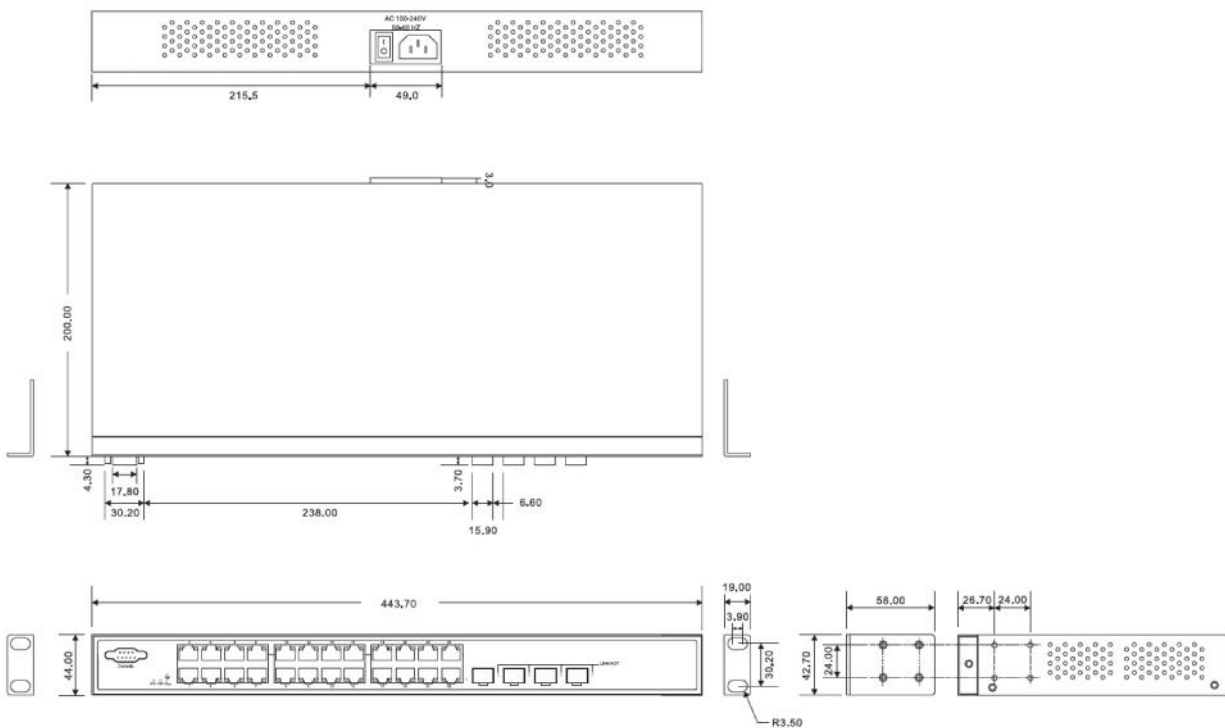
1000BASE-LX, 1000Mbps, single-mode (1310nm) LC connector – 10km

Other SFPs including BIDI fiber transceivers for other fiber lengths are available on request.





Dimensions



Specifications

Ethernet ports

10/100/1000BASE- 24

TX ports in RJ45

Auto MDI/MDIX

1000BASE-X SFP 4

slots

Technology

Ethernet

standards

IEEE 802.3 for 10Base-T

IEEE 802.3u for 100Base-TX and 100Base-FX

IEEE 802.3ab for 1000Base-T

IEEE 802.3z for 1000Base-X

IEEE 802.3x for Flow control





	<p>IEEE 802.3ad for LACP (Link Aggregation Control Protocol)</p> <p>IEEE 802.1D for STP (Spanning Tree Protocol)</p> <p>IEEE 802.1p for COS (Class of Service)</p> <p>IEEE 802.1Q for VLAN Tagging</p> <p>IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol)</p> <p>IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol)</p> <p>IEEE 802.1X for Authentication</p> <p>IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)</p> <p>IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.)</p>
MAC table	8192 MAC addresses
Priority queues	4
Switch properties	<p>Store-and-forward</p> <p>Switching latency: 7us</p> <p>Switch bandwidth: 56Gbps</p> <p>Max. number of VLANs: 4.096</p> <p>IGMP multicast groups: 128 for each VLAN</p>
Jumbo frames	Up to 9kbytes
Security Features	<p>IP police security feature</p> <p>Enable/disable ports, MAC based port security</p> <p>Port based network access control (802.1x)</p> <p>VLAN (802.1Q) to segregate and secure network traffic</p> <p>Radius centralized password management</p> <p>SNMPv3 encrypted authentication and access security</p>
Network redundancy	<p>OnTime-Ring with recovery time less than 20ms over 250 units</p> <p>STP</p> <p>RSTP</p> <p>MSTP</p>
Management	HTTPS, telnet, CLI/SSH and SNMP v1/v2/v3
Other protocols	<p>IGMP snooping (up to 1024 multicast filters)</p> <p>TOS/Diffserv supported</p> <p>Quality of Service (802.1p) for real-time traffic</p> <p>VLAN (802.1Q) with VLAN tagging and GVRP</p> <p>Port configuration, status, statistics, monitoring, security</p> <p>IP based bandwidth management</p> <p>Application based QoS management</p> <p>DOS/DDOS auto prevention</p> <p>Port configuration, status, statistics, monitoring, security</p> <p>DHCP Client/Server</p>
RS232 console port	RS-232 in RJ45 connector with console cable. Baud rate setting: 9600bps, 8, N, 1





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BM-3900 SERIES

LEDs	
Power	Green : AC power indicator
System ready	Green on system ready
Ring Master	Green : Flashing to indicate system operated in OnTime-Ring Master mode
OnTime-Ring	Green : Indicate port operated in OnTime-Ring mode
System Running Indicator (RUN)	Green : System operated continuously
Supervisor Login Indicator (RMT)	Green : System is accessed remotely
Reset To Default Running Indicator (DEF)	Green : System reset to default configuration
Ping Command To The Switch Indicator (Ping)	Green : System is processing "PING" request
PoE indicator	Green for P.S.E. power output indicator
10/100BASE-TX RJ-45 ports	Green (left LED) for Link/Act. Green (right LED) for 100Mbps link
Fiber port indicators	Green for port Link/Act.
Power	
Input Power	100-240VAC with power cord
Power Consumption (Typ.)	36 Watts; 756W(24 ports P.S.E. full loaded)
Overload Current Protection	Yes
Physical Characteristic	
Enclosure	IP30, Aluminum case
Dimension (W x D x H)	431 (W) x 342 (D) x 44 (H) mm (16.97 x 13.46 x 1.73 inch.)
Weight (g)	2800g
Installation	19" mounting.
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-10 to 60°C (-14 to 140°F)
Operating Humidity	5% to 95% Non-condensing





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BM-3900 SERIES

Approvals	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	IEC 61000-4-2 (ESD) IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge), IEC 61000-4-6 (CS), IEC 61000-4-8, IEC 61000-4-11
Shock	IEC60068-2-27
Free fall	IEC60068-2-32
Vibration	IEC60068-2-6
Warranty	2 years

Ordering information

Product	
BM-3924F0	19 inch managed industrial Ethernet switch with 24 x 10/100/1000BASE-TX (RJ-45) + 4 x 1000BASE-X SFP's, 220VAC power input.
BM-3925F1-SX	19 inch managed industrial Ethernet switch with 24 x 10/100/1000BASE-TX (RJ-45) + 4 x 1000BASE-X SFP's + 1 x 1000BASE-SX-550m (LC) , 220VAC power input.
BM-3926F2-SX	19 inch managed industrial Ethernet switch with 24 x 10/100/1000BASE-TX (RJ-45) + 4 x 1000BASE-X SFP's + 2 x 1000BASE-SX-550m (LC) , 220VAC power input.
BM-3927F3-SX	19 inch managed industrial Ethernet switch with 24 x 10/100/1000BASE-TX (RJ-45) + 4 x 1000BASE-X SFP's + 3 x 1000BASE-SX-550m (LC) , 220VAC power input.
BM-3928F4-SX	19 inch managed industrial Ethernet switch with 24 x 10/100/1000BASE-TX (RJ-45) + 4 x 1000BASE-X SFP's + 4 x 1000BASE-SX-550m (LC) , 220VAC power input.
BM-3925F1-LX	19 inch managed industrial Ethernet switch with 24 x 10/100/1000BASE-TX (RJ-45) + 4 x 1000BASE-X SFP's + 1 x 1000BASE-LX-10km (LC) , 220VAC power input.
BM-3926F2-LX	19 inch managed industrial Ethernet switch with 24 x 10/100/1000BASE-TX (RJ-45) + 4 x 1000BASE-X SFP's + 2 x 1000BASE-LX-10km (LC) , 220VAC power input.





Product	
BM-3927F3-LX	19 inch managed industrial Ethernet switch with 24 x 10/100/1000BASE-TX (RJ-45) + 4 x 1000BASE-X SFP's + 3 x 1000BASE-LX-10km (LC) , 220VAC power input.
BM-3928F4-LX	19 inch managed industrial Ethernet switch with 24 x 10/100/1000BASE-TX (RJ-45) + 4 x 1000BASE-X SFP's + 4 x 1000BASE-LX-10km (LC) , 220VAC power input.

