



Blueberry 28 port gigabit managed Industrial 19" Ethernet switch, BM-2900 series

Features

- 24 x 10/100/1000BASE-TX ports
- 4 x 1000BASE-X SFP 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 switches in the BM-2900 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:

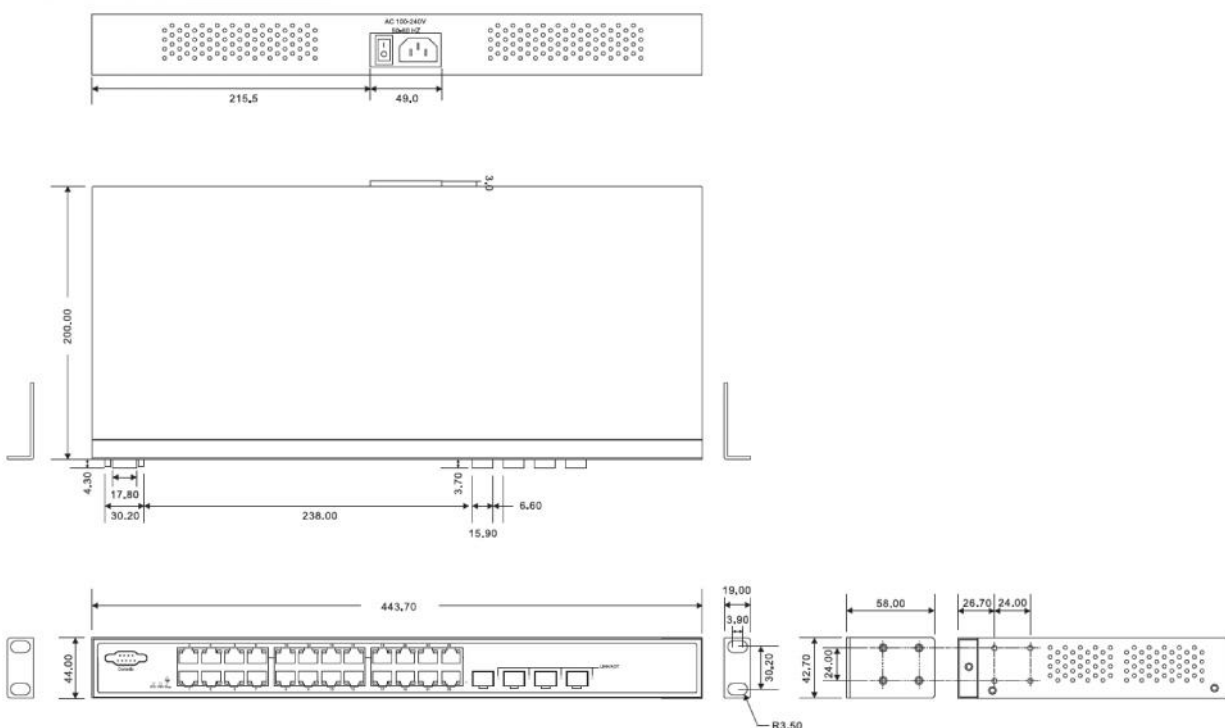
- 1000BASE-SX, 1000Mbps, multi mode (850nm) LC connector – 550m
- 1000BASE-LX, 1000Mbps, single mode (1310nm) LC connector – 10km

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





Dimensions



Specifications

Ethernet ports

10/100/1000BASE-TX ports in RJ45 24

Auto MDI/MDIX

1000BASE-X SFP slots 4

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
 IEEE 802.3ad for LACP (Link Aggregation Control Protocol)
 IEEE 802.1D for STP (Spanning Tree Protocol)





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





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OnTime-Ring	Green : Indicate port operated in OnTime-Ring mode
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
Overload Current Protection	Yes
Physical Characteristic	
Enclosure	IP30, Aluminum case
Dimension (W x D x H)	443.7(W) x 200(D) x 44(H) mm (17.47 x 7.88 x 1.73 inch.)
Weight (g)	2700g
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
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





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BM-2900 SERIES

Ordering information

Product	
BM-2924F0	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-2925F1-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-2926F2-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-2927F3-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-2928F4-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-2925F1-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-2926F2-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.
BM-2927F3-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-2928F4-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.





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