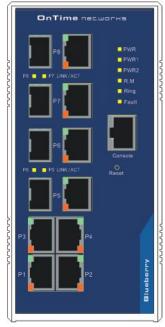




Blueberry 8 port managed Industrial gigabit Ethernet switch, BM-1600 series

Features

- 4 x 10/100/1000BASE-TX ports
- 4 x 10/100/1000BASE-X combo 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
- Event notification: through Syslog, Email, and SNMP trap
- Wide operating temperature: [-40°C..70°C]
- Triple redundant DC power input
- Mounting: DIN-Rail









The switches in the BM-1600 series offer full management based on HTTP, telnet, CLI, SNMP or the Windows Open Vision software application. Network Redundancy is achieved based on the OnTime-Ring- (recovery time < 10ms over 250 units of connection) or MSTP/RSTP/STP (IEEE 802.1s/w/D) protocol. The switch is designed for industrial environments and offers a wide operating temperature range, [-40°C..70°C]. 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.

The unit supports multicast filtering (IGMP snooping), IEEE802.1Q VLAN and Event notification, through Syslog, Email, and SNMP trap.

The BM-1600 further features triple redundant DC power inputs, DIN-Rail Mounting and comes in an IP30 Aluminum case.







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Dimensions

Specifications

Ethernet ports	
10/100/1000 BASE-TX ports in RJ45	4-8
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 802.3z 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 and full wire speed on all ports
Security Features	Enable/disable ports, MAC based port security





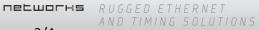






	Double and material (202.4.)
	Port based network access control (802.1x)
	VLAN (802.1Q) to segregate and secure network traffic
	Radius centralized password management
Natural, vadovada a se	SNMPv3 encrypted authentication and access security
Network redundancy	OnTime-Ring
	STP
	RSTP
	MSTP
Management	HTTP, telnet, CLI and SNMP v1/v2/v3 or Windows Open Vision
Other protocols	IGMP snooping (up to 1024 multicast filters)
	Port rate limiting
	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
RS232 console port	RS-232 in RJ45 connector with console cable. Baud rate setting:
	9600bps, 8, N, 1
LEDs	
Power	Green : Power LED x 2, Indicate power input
10/100/1000BASE-TX RJ45 ports	Green for port Link/Act. Amber for Duplex/Collision
Fiber port indicators	Green for port Link/Act.
Ring Master	Light on for system ready
	Blinking for system ready and Ring master mode
	Light off for system failed
OnTime-Ring	Green: Indicate port operated in OnTime-Ring mode
Fault	Amber: Indicate power fault or other failure
Fault relay	
Relay	Relay output to carry capacity of 1A at 24VDC
Power	
Redundant Input Power	Dual DC inputs. 12-48VDC on 6-pin terminal block
Power Consumption (Typ.)	24 Watts
Overload Current Protection	Yes
Reverse Polarity Protection	Yes
Physical Characteristic	
Enclosure	IP30, Aluminum case
Dimension (W x D x H)	74.3(W) x 109.2(D) x 153.6(H) mm (2.93 x 4.3 x 6.05 inch.)
Weight (g)	1075g
Installation	DIN rail mounting
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 70°C (-40 to 158°F)
-1	







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Operating Humidity	5% to 95% Non-condensing
Approvals	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT),
	EN61000-4-5 (Surge), EN61000-4-6 (CS),
	EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27
Free fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950
Warranty	5 years

Ordering information

Product	
BM-1608FC0	Managed industrial Ethernet switch with 8 x 10/100/1000BASE-TX (RJ-45) + 4 x SFP combo ports
BM-1608FC1-SX	Managed industrial Ethernet switch with 7 x 10/100/1000BASE- (RJ-45) + 4 x SFP combo ports + 1x 1000BASE-SX-550m (LC)
BM-1608FC2-SX	Managed industrial Ethernet switch with 6 x $10/100/1000BASE-(RJ-45) + 4 \times SFP$ combo ports $+ 2x 1000BASE-SX-550m$ (LC)
BM-1608FC3-SX	Managed industrial Ethernet switch with 5 x $10/100/1000BASE$ - (RJ-45) + 4 x SFP combo ports + 3x $1000BASE$ -SX-550m (LC)
BM-1608FC4-SX	Managed industrial Ethernet switch with 4 x 10/100/1000BASE- (RJ-45) + 4 x SFP combo ports + 4x 1000BASE-SX-550m (LC)
BM-1608FC1-LX	Managed industrial Ethernet switch with 7 x $10/100/1000$ BASE- (RJ-45) + 4 x SFP combo ports + 1x 1000 BASE-LX- 10 km (LC)
BM-1608FC2-LX	Managed industrial Ethernet switch with 6 x 10/100/1000BASE- (RJ-45) + 4 x SFP combo ports + 2x 1000BASE-LX-10km (LC)
BM-1608FC3-LX	Managed industrial Ethernet switch with 5 x $10/100/1000$ BASE- (RJ-45) + 4 x SFP combo ports + 3x 1000 BASE-LX- 10 km (LC)
BM-1608FC4-LX	Managed industrial Ethernet switch with 4 x 10/100/1000BASE- (RJ-45) + 4 x SFP combo ports + 4x 1000BASE-LX-10km (LC)



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