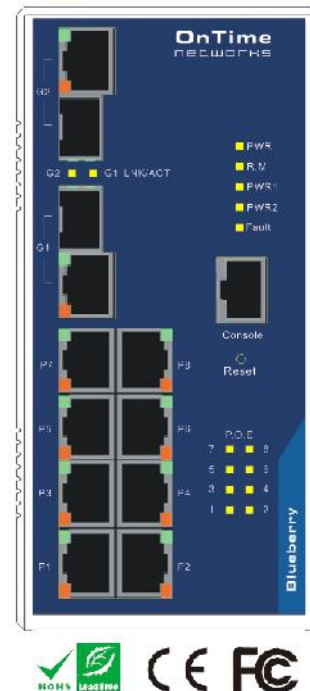


Blueberry 10 port managed Power over Ethernet (PoE/PoE+) industrial switch, BM-1700 series

Features

- 8 x 10/100BASE-TX ports
- 2 x 10/100/1000BASE-X combo ports
- PoE on each of the 10/100BASE-TX ports (15.4 Watts per port), or PoE+ on each of the 10/100BASE-TX ports (up to 30W per port) if AT option is ordered
- 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]
- Dual redundant DC power input
- Mounting: DIN-Rail



The switches in the BM-1700 series offer PoE (Power Sourcing Equipment (PSE)) on each of the 8 10/100BASE-TX ports. The PoE implementation is fully compliant with the IEEE802.3af/ IEEE802.3at standard and 15.4W/30W (-AT option) can be provided per port. The switch offers 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), OnTime-RSTP- 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, [-40°C..70°C]. Two of the ports are of gigabit combo type. A combo port will act as a 10/100/1000BASE-TX (copper) port if no pluggable fiber transceiver (SFP) is installed, while the copper port will be disabled if a SFP is installed in the corresponding SFP cage. Up to two SFPs of the following types can be installed in the two SFP cages:

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



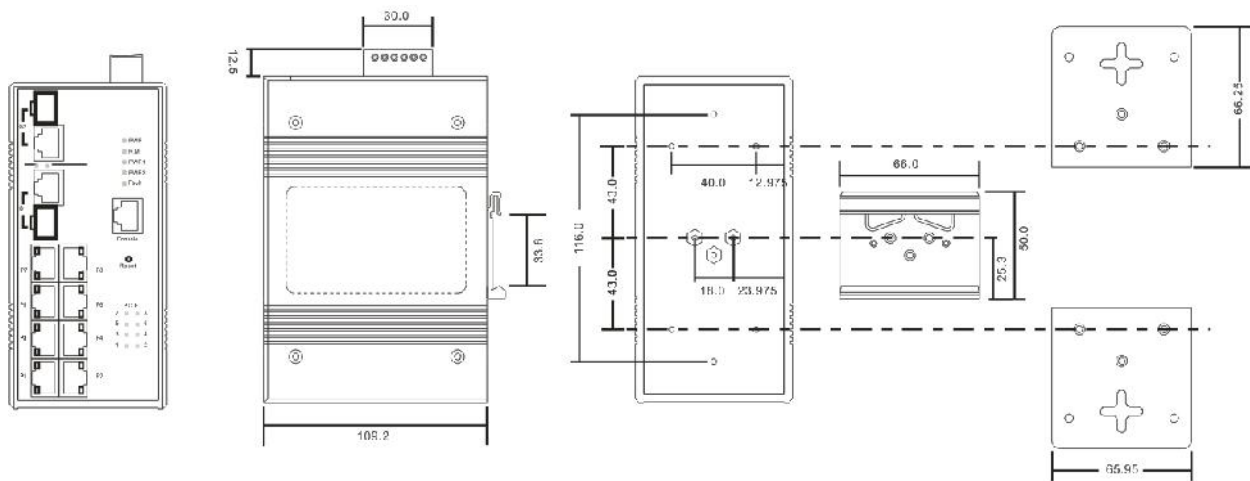


Other SFPs including BIDI fiber transceivers for other fiber lengths are available on request.

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

The BM-1700 further features dual redundant DC power inputs, DIN-Rail Mounting and comes in an IP30 Aluminum case.

Dimensions





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Specifications

Ethernet ports	
10/100BASE-TX ports in RJ45 Auto MDI/MDIX	8
10/100/1000BASE-TX ports in RJ45 Auto MDI/MDIX	0-2
1000BASE-X SFP slots	2
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) IEEE 802.3af PoE specification (up to 15.4 Watts per port) IEEE 802.3at PoE+ specification (up to 30 Watts per port)
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 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 STP, RSTP or MSTP
Management	HTTP, telnet, CLI and SNMP v1/v2/v3 or OnTime 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





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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
10/100BASE-TX RJ45 ports	Green for port Link/Act. Amber for Duplex/Collision
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. 48VDC on 6-pin terminal block
Power Consumption (Typ.)	9 Watts (without PoE)
Overload Current Protection	Yes
Reverse Polarity Protection	No
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)	1100g
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)
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





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BM-1700 SERIES

Ordering information

Product	
BM-1710FC0	Managed industrial PoE Ethernet switch with 8 x 10/100BASE-TX (RJ-45) + 2 x SFP + 2 x 10/100/1000BASE-TX (RJ-45)
BM-1710FC1-SX	Managed industrial PoE Ethernet switch with 8 x 10/100BASE-TX (RJ-45) + 2 x SFP + 1 x 10/100/1000BASE-TX (RJ-45) + 1 x 1000BASE-SX-550m (LC), 850nm multi-mode
BM-1710FC2-SX	Managed industrial PoE Ethernet switch with 8 x 10/100BASE-TX (RJ-45) + 2 x SFP + 2 x 1000BASE-SX-550m (LC), 850nm multi-mode
BM-1710FC1-LX	Managed industrial PoE Ethernet switch with 8 x 10/100BASE-TX (RJ-45) + 2 x SFP + 1 x 10/100/1000BASE-TX (RJ-45) + 1 x 1000BASE-LX-10km (LC), 1310nm single mode
BM-1710FC2-LX	Managed industrial PoE Ethernet switch with 8 x 10/100BASE-TX (RJ-45) + 2 x SFP + 2 x 1000BASE-LX-10km (LC), 1310nm single mode
BM-1710FC0-AT	Managed industrial PoE+ Ethernet switch with 8 x 10/100BASE-TX (RJ-45) + 2 x SFP + 2 x 10/100/1000BASE-TX (RJ-45)
BM-1710FC1-SX-AT	Managed industrial PoE+ Ethernet switch with 8 x 10/100BASE-TX (RJ-45) + 2 x SFP + 1 x 10/100/1000BASE-TX (RJ-45) + 1 x 1000BASE-SX-550m (LC), 850nm multi-mode
BM-1710FC2-SX-AT	Managed industrial PoE+ Ethernet switch with 8 x 10/100BASE-TX (RJ-45) + 2 x SFP + 2 x 1000BASE-SX-550m (LC), 850nm multi-mode
BM-1710FC1-LX-AT	Managed industrial PoE+ Ethernet switch with 8 x 10/100BASE-TX (RJ-45) + 2 x SFP + 1 x 10/100/1000BASE-TX (RJ-45) + 1 x 1000BASE-LX-10km (LC), 1310nm single mode
BM-1710FC2-LX-AT	Managed industrial PoE+ Ethernet switch with 8 x 10/100BASE-TX (RJ-45) + 2 x SFP + 2 x 1000BASE-LX-10km (LC), 1310nm single mode





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