



BLUEBERRY  
INDUSTRIAL  
ETHERNET



BM-1900 SERIES

## Blueberry 26 port managed Industrial 19" Ethernet switch, BM-1900 series

### Features

- 24 x 10/100BASE-TX ports
- 2 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
- Port trunking
- Event notification: through Syslog, Email, and SNMP trap
- Wide operating temperature: [-40°C..70°C]
- AC (100-240VAC) or DC (12-48VDC) powered
- Dual redundant DC power input
- Mounting: 19inch mounting



The BM-1900 switch 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), 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

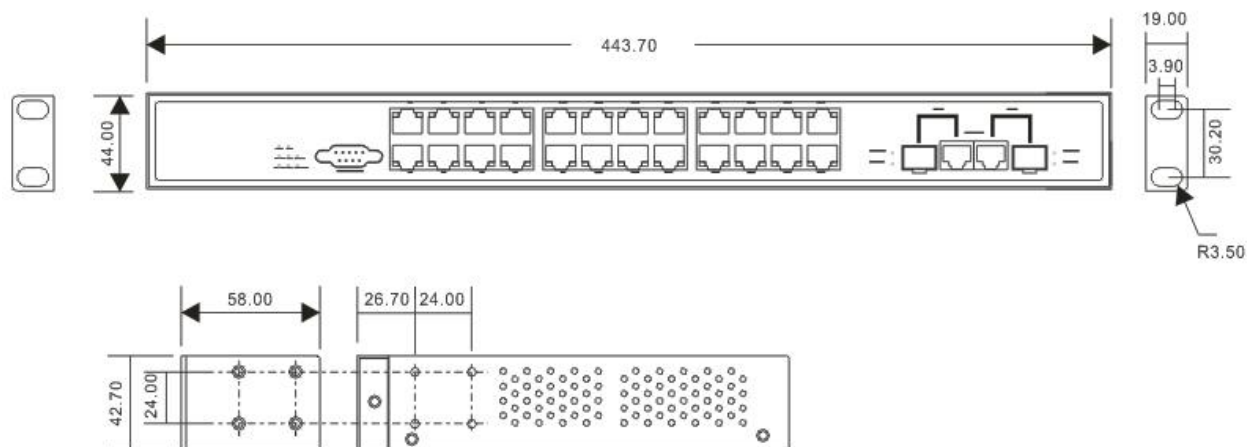
1000BASE-LX, 1000Mbps, single mode (1310nm) LC connector – 10km

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





## Dimensions



## Specifications

Ethernet ports	
10/100BASE-TX ports in RJ45 Auto MDI/MDIX	24
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)
MAC table	8192 MAC addresses
Priority queues	4
Switch properties	Store-and-forward and full wire speed on all ports





<b>Security Features</b>	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
<b>Network redundancy</b>	OnTime-Ring STP RSTP MSTP
<b>Management</b>	HTTP, telnet, CLI and SNMP v1/v2/v3 or Windows Open Vision
<b>Other protocols</b>	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
<b>RS232 console port</b>	RS-232 in RJ45 connector with console cable. Baud rate setting: 9600bps, 8, N, 1
<b>LEDs</b>	
<b>Power</b>	Green : Power LED x 4, Indicate power input
<b>Status</b>	Green on system ready
<b>10/100BASE-TX RJ-45 ports</b>	Green (left LED) for Link/Act. Green (right LED) for 100Mbps link
<b>10/100/1000BASE-TX RJ-45 port/ Fiber port indicators</b>	Green for port Link/Act.
<b>Ring Master</b>	Green : Flashing to indicate system operated in OnTime-Ring Master mode
<b>OnTime-Ring</b>	Green : Indicate port operated in OnTime-Ring mode
<b>Fault</b>	Amber : Indicate power fault or other failure
<b>Fault relay</b>	
<b>Relay</b>	Relay output to carry capacity of 1A at 24VDC
<b>Power</b>	
<b>Redundant Input Power</b>	Dual DC inputs. 12-48VDC on 6-pin terminal block
<b>Power Consumption (Typ.)</b>	18 Watts
<b>Overload Current Protection</b>	Yes
<b>Reverse Polarity Protection</b>	No
<b>Physical Characteristic</b>	
<b>Enclosure</b>	IP30, Aluminum case
<b>Dimension (W x D x H)</b>	443.7(W) x 200(D) x 44(H) mm (17.47 x 7.88 x 1.73 inch.)
<b>Weight (g)</b>	2480g
<b>Installation</b>	19" mounting.





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Environmental	
<b>Storage Temperature</b>	-40 to 85°C (-40 to 185°F)
<b>Operating Temperature</b>	-40 to 70°C (-40 to 158°F)
<b>Operating Humidity</b>	5% to 95% Non-condensing
Approvals	
<b>EMI</b>	FCC Part 15, CISPR (EN55022) class A
<b>EMS</b>	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
<b>Warranty</b>	2 years

### Ordering information

Product	
<b>BM-1926FC0</b>	19 inch managed industrial Ethernet switch with 24 x 10/100BASE-TX (RJ-45) + 2 x SFP + 2 x 10/100/1000BASE-TX (RJ-45)
<b>BM-1926FC1-SX</b>	19 inch managed industrial Ethernet switch with 24 x 10/100BASE-TX (RJ-45) + 2 x SFP + 1 x 10/100/1000BASE-TX (RJ-45) + 1 x 1000BASE-SX-550m (LC)
<b>BM-1926FC2-SX</b>	19 inch managed industrial Ethernet switch with 24 x 10/100BASE-TX (RJ-45) + 2 x SFP + 2 x 1000BASE-SX-550m (LC)
<b>BM-1926FC1-LX</b>	19 inch managed industrial Ethernet switch with 24 x 10/100BASE-TX (RJ-45) + 2 x SFP + 1 x 10/100/1000BASE-TX (RJ-45) + 1 x 1000BASE-LX-10km (LC)
<b>BM-1926FC2-LX</b>	19 inch managed industrial Ethernet switch with 24 x 10/100BASE-TX (RJ-45) + 2 x SFP + 2 x 1000BASE-LX-10km (LC)

