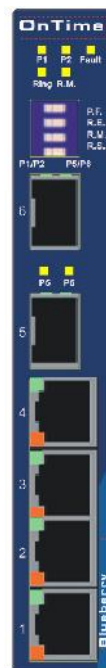




Blueberry 6 port lite managed Industrial Ethernet switch, BM-300 series

Features

- 4 x 10/100BASE-TX ports
- 2 x 100BASE SFP ports
- Network redundancy: OnTime-Ring, RSTP/STP (IEEE 802.1w/D)
- Network management: Web and SNMP
- Event notification: through Syslog, Email, and SNMP trap
- Wide operating temperature range from -40°C to 70°C
- Dual redundant DC power input
- IP30 aluminum housing
- Mounting: DIN-rail



The switches in the BM-300 series offer lite-managed Redundant Ring Ethernet switch with four 10/100BASE-TX and two SFPs cages. Ethernet Redundancy is achieved either based on the OnTime-Ring protocol or RSTP/STP (IEEE 802.1w/D) and the switch can be managed through SNMP, web or the Windows Open Vision software application. The switch is designed for industrial environments. The switch offers a wide operating temperature range, [-40°C..70°C] and can be equipped with none, one or two plug-able fiber transceivers (SFPs) of the following types:

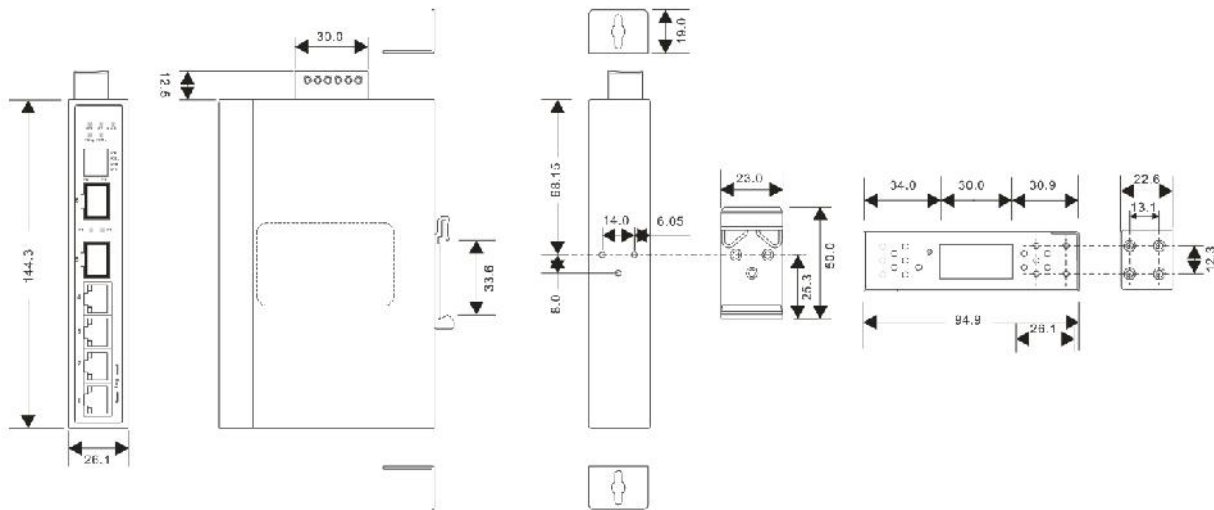
- 100BASE-FX-MM, 100Mbps, multi mode (1310nm) LC connector – 2km
- 100BASE-FX-SM, 100Mbps, single mode (1310nm) LC connector – 30km

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





Dimensions



Specifications

Ethernet TX	
10/100BASE-TX Ports in RJ45 Auto MDI/MDIX	4
100BASE-FX SFP slots	2
Technology	
Ethernet standards	IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseTX IEEE 802.3x for Flow control IEEE 802.1D for STP (Spanning Tree Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)
MAC table	2048 MAC addresses
Priority queues	4
Switch properties	Store-and-forward and full wires speed on all ports
Security features	Port based VLAN, enable/disable ports
Network redundancy	STP/RSTP (IEEE 802.1D/w) Redundant Ring (OnTime-Ring) with recovery time less than 10ms over 250 units





Management	HTTP, SNMP v1/v2c/v3 or Windows Open Vision
Other protocols	TOS/Diffserv supported
DIP switch settings	
P.F.	When power fault enable relay warning system (On : Enable, Off : Disable function)
R.E.	Enable/Disable O-Ring function (On : Enable, Off : Disable)
R.M.	Enable/Disable Ring Master Mode (On : Enable, Off : Disable)
R.S.	O-Ring redundant port select (Off : ring port set to port-1 and port-2, On : ring port set to port-5 and port-6)
LEDs	
Power	Green : Power LED x 2, Indicate power inputs
10/100BASE-TX RJ45 ports	Green for port Link/Act. Amber for Duplex/Collision
Fiber port indicators	Green for port Link/Act.
Ring Master	Green : Indicate system operated in OnTime-Ring Master mode
OnTime-Ring	Green : Indicate port operated in OnTime-Ring mode
Fault	Amber : Indicate power fault or other failure
Power	
Redundant Input Power	Dual DC input. 12 - 48 VDC voltage power input on 6-pin terminal block
Power Consumption (Typ.)	7 Watts
Overload Current Protection	Yes
Reverse Polarity Protection	Yes
Physical Characteristic	
Enclosure	IP30, Aluminum case
Dimension (W x D x H)	26.1 mm (W) x 95 mm(D) x 144.3 mm(H) (1.03 x 3.74 x 5.68 inch.)
Weight (g)	395g
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	EN61000-6-4 (EN55011) and 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-304F0	Managed lite industrial Ethernet switch with 4x10/100BASE-TX (RJ-45) + 2xSFP
BM-305F1-FX-MM	Managed lite industrial Ethernet switch with 4x10/100BASE-TX (RJ-45) + 2xSFP + 1x100BASE-FX-MM-2km
BM-306F2-FX-MM	Managed lite industrial Ethernet switch with 4x10/100BASE-TX (RJ-45) + 2xSFP + 2x100BASE-FX-MM-2km
BM-305F1-FX-SM	Managed lite industrial Ethernet switch with 4x10/100BASE-TX (RJ-45) + 2xSFP + 1x100BASE-FX-SM-30km
BM-306F2-FX-SM	Managed lite industrial Ethernet switch with 4x10/100BASE-TX (RJ-45) + 2xSFP + 2x100BASE-FX-SM-30km

