

8G+2GSFP Industrial Unmanaged PoE+ Gigabit Ethernet Switch



BEC
by BILLION

ES 1010GP-2SFP



- 8x Gigabit Ethernet ports with IEEE 802.3at PoE+
- 2x 100/1000F(x) SFP Slot
- Built for harsh environments and wide temperature range application
- Relay Output with Current Carrying Capacity
- IP-30 Hardened Enclosure
- DIN-Rail Mounting, Optional Wall Mounting

Specifications

Technology

Standards	IEEE 802.3 10BaseT
	IEEE 802.3u 100BaseTX
	IEEE 802.3ab 1000BaseT
	IEEE 802.3z 1000BaseX
	IEEE 802.3x Flow Control
	IEEE 802.3af Power over Ethernet
	IEEE 802.3at PoE+

Processing Type	Store and Forward
-----------------	-------------------

Switch Properties

Switch Fabric	20Gbps
Priority Queues	-
MAC Table Size	8K
Packet Buffer	4Mbits

Interface

RJ45 Port	8x 10/100/1000T(x) with PoE+, auto negotiation speed duplex mode, auto MDI/MDI-X
Fiber Port	2x 100/1000F(x) SFP Slot
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6, Endsparn, MDI Mode A
LED Indicators	Per unit: PWR1, PWR2, Fault Ports: Link/Active (Green) PoE: Output Power(Amber)
Alarm Contact	1x relay output with current carrying capacity of 1A @ 24 VDC

Power Requirements

Operation Voltage	48-57VDC, redundant dual inputs, >50VDC for PoE+ output recommended
Connection	1x removable 6-contact terminal block
Power Consumption	0.21A@48VDC without PDs' consumption
PoE Power Budget	240W
Protection	Overload Current Protected, Reverse Polarity Protected

Environmental Limits

Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Humidity	5 to 95%, (Non-Condensing)

Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A CE EN 55032 Class A
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge) IEC61000-4-6 (CS) IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	IEC 61000-6-2 IEC 61000-6-4

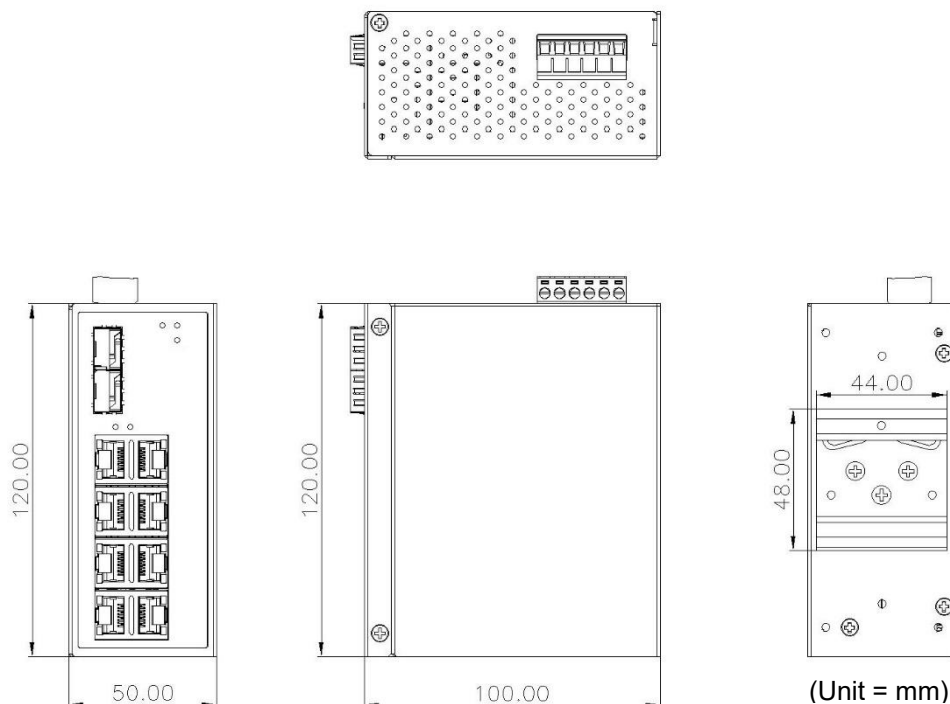
Mechanical Construction

Enclosure	Aluminum
Protection Class	IP-30
Dimensions	50x120x100 mm (WxHxD)
Weight	0.67 kg
Mounting	DIN-Rail Mounting, Optional Wall Mounting Kits

Regulatory Approvals

MTBF	>100,000 hours
Warranty	5 Years

Dimensions



Ordering Information

ES 1010GP-2SFP

8G+2GSFP Industrial Unmanaged PoE+ Gigabit Ethernet Switch
 - 8x 10/100/1000T(x) with 30W PSE + 2x 100/1000F(x) SFP Slot
 - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)

Optional Accessories

Industrial DIN Power Supply

DRL-48V120W1EN	120W Industrial DIN-Rail Power Supply, 48VDC (metal case)
DRL-48V240W1EN	240W Industrial DIN-Rail Power Supply, 48VDC (metal case)

SFP

SFPFM2	SFP, 100Mbps, LC, multi-mode, 2KM, 0~70°C
SFPFS30	SFP, 100Mbps, LC, single-mode, 30KM, 0~70°C
SFPGM05	SFP, 1000Mbps, LC, multi, DDM, 550M, 0~70°C
SFPGM2	SFP, 1000Mbps, LC, multi, DDM, 2KM, 0~70°C
SFPGS10	SFP, 1000Mbps, LC, single, DDM, 10KM, 0~70°C

Note: Specifications in this datasheet are subject to change without prior notice.