



BG2-0500 Series

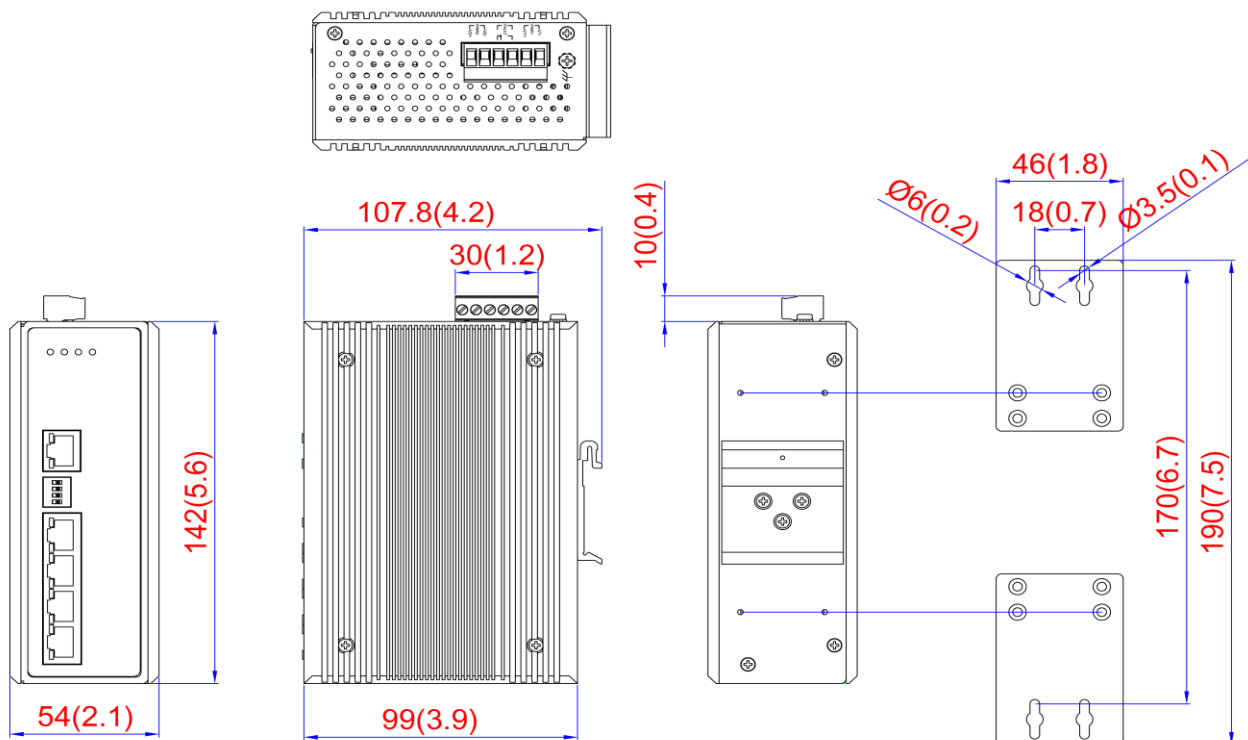
5-Port Industrial Gigabit IEEE 802.3bt PoE+ Ethernet Switch
 -4*10/100/1000Base-T(X) with bt PoE-PSE (90W/Port) +
 1*10/100/1000Base-T(X)



- 4-port 10/100/1000Base-T(X) Ethernet with IEEE 802.3bt compliant PoE+, 90W/port
- 1-port 10/100/1000Base-T(X) Gigabit Ethernet
- Built-in Power Booster Design for PoE Output
- Built-in Relay Output Warning for Power Failure
- Redundant power inputs design
- Operating temperature range - STD: -10°C ~ 65°C, EOT: -40°C ~ 75°C



Dimension



Unit: mm (inch)

Din-rail

Wall-mount

Specification

Technology	
Standards	IEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX and 100BaseFX Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet IEEE 802.3af/at/bt Power over Ethernet
Processing Type	Store and Forward
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	
Switching Fabric (Back-Plane)	10Gbps
Memory Buffer	1Mbits
MAC Table Size	8K
Jumbo Frame	10Kbytes
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet port
Interface	
RJ45 Ports	4*10/100/1000 Base-T(X) with bt PoE-PSE (90W/Port) + 1*10/100/1000Base-T(X) Auto-Negotiation, Full/Half Duplex, Auto-MDI/MDI-X
PoE Pin Out	V-, V-, V+, V+, for pin 1, 2, 3, 6; V+, V+, V-, V-, for pin 4, 5, 7, 8 *Support Modes: Mode A, Mode B, 4-Pair Mode
LED Indicators	System: Power 1, Power 2, Fault, PoE Load(P/L) Ethernet ports: Speed/Link/Active PoE: On-connected to PD devices
Relay Contact	24 VDC, 1A resistive
Network Cable	10BaseT: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100BaseTX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)
Dip Switch	Control PoE Function by Port
Power Requirements	
Input Voltage	Dual 48-55VDC redundant power inputs * For IEEE802.3 bt application, power supply not less than 53V is recommended
Power Connection	1*removable 6-contact terminal block
Overload Current Protection	Present (Slow-Blow Fuse)
Reverse Polarity Protection	Present
System Power Consumption	Max. 5W full loading
Max. PoE Power Budget	180W@48-55VDC
PoE Port Priority	Priority: Port 1>Port 2>Port 3>Port 4
Mechanical Characteristics	
Housing	Metal, IP30 protection
Dimensions (W x H x D)	54 x 142 x 99 mm (2.1x 5.6 x 3.9 inch)
Weight	Unit weight: 0.84kg (1.85lbs), Shipping weight: 1.14kg (2.51lbs)
Mounting	DIN-Rail Mounting, Wall Mounting
Environmental Limits	
Operating Temperature	STD: -10°C ~ 65°C (14°F ~ 149°F) EOT: -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (non-condensing)
Regulatory Approvals	
EMI	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A
EMS	CE EN55035/EN61000-6-2 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
Safety	UL61010-1, UL61010-2-201
MTBF (Telcordia SR-332, Issue 3, GB, 25°C)	1,542,873 hrs.
Warranty	5 Years
NOTE: Due to continuous improvement, all product specifications are subject to change without further notice.	

Packet Contents	pcs
BG2-0500(-T) Ethernet switch	1
Wall-mount installation kits	2
Quick installation guide (printed)	1

Comparison Table					
Model Name	10/100/1000T(X)	10/100/1000T(X) bt PoE	Power Inputs	PoE Max. Power Budget	Operating Temperature
BG2-0500	1	4	48-55VDC	180W	-10°C ~ 65°C
BG2-0500-T	1	4	48-55VDC	180W	-40°C ~ 75°C

Ordering Information	
BG2-0500	5-Port Industrial Gigabit 802.3bt PoE Ethernet Switch -4*10/100/1000Base-T(X) with bt PoE-PSE (90W/Port) + 1*10/100/1000Base-T(X), 48-55VDC, -10°C ~ 65°C
BG2-0500-T	5-Port Industrial Gigabit 802.3bt PoE Ethernet Switch -4*10/100/1000Base-T(X) with bt PoE-PSE (90W/Port) + 1*10/100/1000Base-T(X), 48-55VDC, -40°C ~ 75°C

Optional Accessories - Power Supply Series	
75W Power Supply Series	
EDR-75-48	75W Industrial DIN-Rail Power Supply, 48VDC/1.6A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 60°C
NDR-75-48	75W Industrial DIN-Rail Power Supply, 48VDC/1.6A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 70°C
120W Power Supply Series	
EDR-120-48	120W Industrial DIN-Rail Power Supply, 48VDC/2.5A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 60°C
NDR-120-48	120W Industrial DIN-Rail Power Supply, 48VDC/2.5A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 70°C
240W Power Supply Series	
NDR-240-48	240W Industrial DIN-Rail Power Supply w/ PFC, 48VDC/5A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 70°C
480W Power Supply Series	
NDR-480-48	480W Industrial DIN-Rail Power Supply w/ PFC, 48VDC/10A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 70°C