

## BI6205E

### 5-Port 10/100M Industrial Switch

## Datasheet



### Key Features:

**Ports:** Provide 5\*10/100Mbps Ethernet ports

**Self-adaption:** RJ45 port supports 10/100Mbps Auto MDI/MDIX

**Industrial Installation:** Din Rail mounting installation

**Wide Application:** Designed for Railway, traffic etc some Industrial environment

**Surge protection:** Protect the device from lighting surges and others electrical hazards

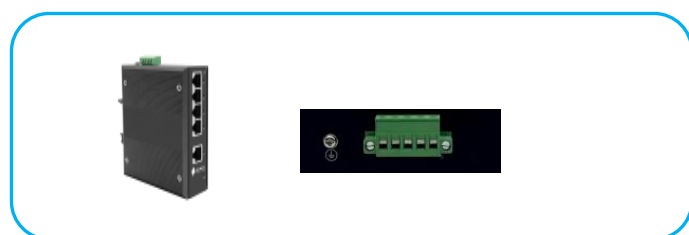
**Working Temperature:** -40 to 85 degrees operating temperature

**Considerate Design:** IP40 Industrial enclosure with dual power input

**Easy to use:** Plug and play, No configuration required

### Environmentally Hardened Design

With the **IP40** metal industrial case which provides a high level of immunity against electromagnetic interference and heavy electrical surges, Being able to operate under the temperature range from **-40 to 85 degrees C**, the BI6205E can be placed in almost any difficult environment.

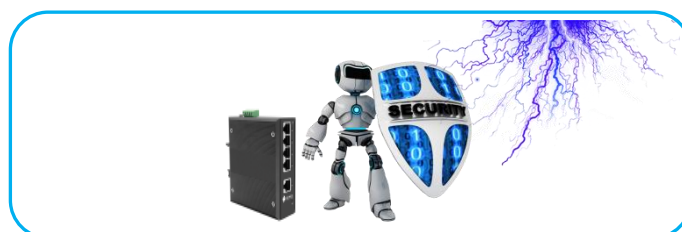


### Dual Power input for High Availability Network

Featuring a strong dual power input system with wide-ranging voltages (12V~52V DC) incorporated into customer's automation network to enhance system reliability and uptime which make the installation more flexible and convenient.

### Surge Protection Design

provides contact discharge of  $\pm 8\text{KV}$  DC and air discharge of  $\pm 15\text{KV}$  DC for Ethernet ESD protection. It also supports  $\pm 6\text{KV}$  surge immunity to improve product stability and protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.

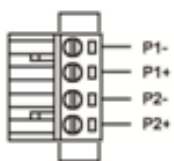


## Technical Datasheet

Model	BI6205E		
Hardware Specifications			
Copper ports	5*10/100BASE-T RJ45 auto-MDI/MDI-X ports		
Connector	Removable 4-pin terminal block Pin 1/2 for Power 1; Pin 3/4 for Power 2		
LED Display	Power Indicator: PWR(green).Network Indicator: Link(yellow)		
Power requirements	12~52V DC		
Power Consumption	Less than 2Watts		
Switch Performance	Backplane bandwidth		1.6Gbps
	Packet forwarding rate		0.75Mpps
	MAC address		4k
	Flow control	Back pressure for half duple. IEEE 802.3x pause frame for full duplex	
Enclosure	IP40 Metal case		
ESD Protection	6KV ESD		
Dimension(W x D x H)	30 x 86 x 118mm		
Weight	0.32Kg		
Standards Conformance			
Network standard	IEEE802.3i 10 BASE-T		
	IEEE802.3u 100 BASE-TX		
	IEEE 802.3x Full-Duplex Flow Control		
	IEEE802.3az EEE		
Stability Testing	FCC CFR47 Part 15, EN55022/CISPR22, Class A		
	EMS:		
	IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)		
	IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)		
	IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV		
	IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV		
	IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)		
	IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)		
	IEC 60068-2-32 (free fall)		
	IEC 60068-2-27 (shock)		
IEC 60068-2-6 (vibration)			
Environment			
Environment specification	Operating temperature: -40℃~85℃ , operating humidity: 5%~95%		
	Storage temperature: -40℃~85℃ , storage humidity: 5%~95%		
Warranty	5 Years		

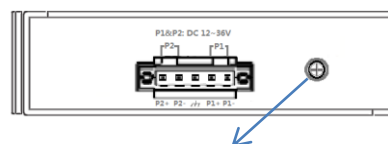
## Installation Models

### Power Terminal

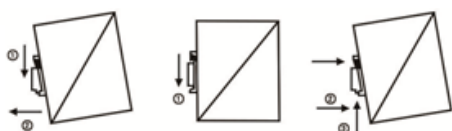


- ◆ 5-pin 3.81mm-spacing plug-in terminal
- ◆ 12V-36VDC wide voltage input
- ◆ P1&P2 dual power input
- ◆ Reverse protection

### Earth Protection

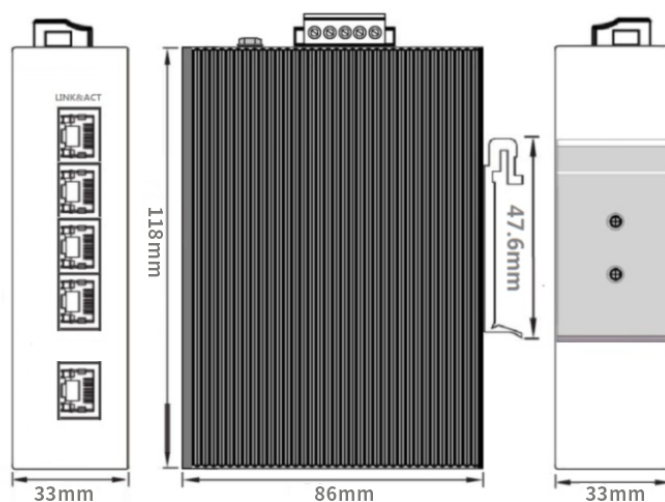


Ground screw



Din-Rail

## Mechanical Drawing



### Ordering Information

BI6205E	5 Ports 10/100Mbps Industrial Ethernet switch
---------	---



# 337 Forest Road  
London, United Kingdom



+44 7859 571344



Info@borneelectronics.com



<https://borneelectronics.com>