

# BI6204E1F-SM-20KM

5-Port 100M Industrial PoE Switch

## Datasheet



### Key Features:

**Ports:** Provide 4\*10/100Mbps Ethernet ports with 1\*155Mbps SC

**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

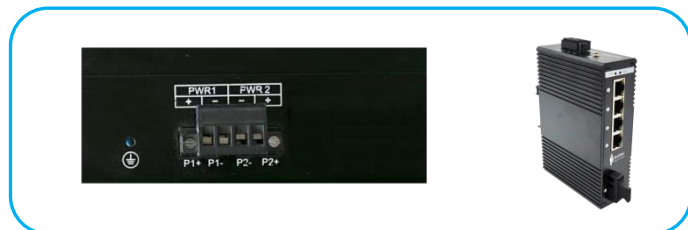
**Working Temperature:** -40 to 85 degrees operating temperature

**Considerate Design:** IP40 Industrial enclosure

**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 BI6204E1F-SM-20KM 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~54V 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.

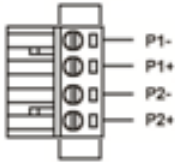


Technical Datasheet

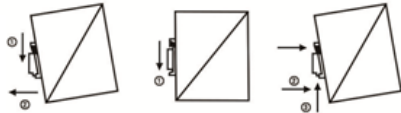
Model	BI6204E1F-SM-20KM		
Hardware Specifications			
ports	4*10/100BASE-T RJ45 auto-MDI/MDI-X ports 1 *155Mbps SC		
Connector	Removable 4-pin terminal block Pin 1/2 for Power 1; Pin 3/4 for Power 2		
LED Display	Power Indicator: PWR(green).Network Indicator: Link(yellow) SC: Green		
Power requirements	12~54V DC		
Power Consumption	Less than 2 Watts		
Power Protection	Reverse protection; Over voltage protection,Over current protection		
Fiber	Dual fiber/singe fiber optional,distance depends on fiber module,SC connector		
Switch Performance	Backplane bandwidth		1Gbps
	Packet forwarding rate		0.75Mpps
	MAC address		2k
	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)	28 x 90 x 126mm (1.1in x 3.54in x4.96in )		
Weight	0.55Kg		
Standards Conformance			
Network standard	IEEE 802.3 10Base-T		
	IEEE 802.3u 100Base-Tx		
	IEEE 802.3x Full-Duplex Flow Control		
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%		

### Installation Models

#### Power Terminal

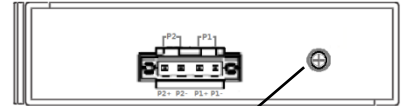


- ◆ 4-pin 3.81mm-spacing plug-in terminal
- ◆ 12V-54VDC wide voltage input
- ◆ P1&P2 dual power input
- ◆ Reverse protection



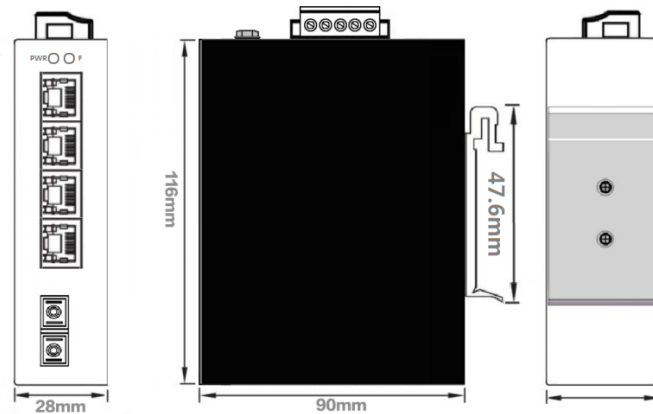
#### Din-Rail

#### Earth Protection

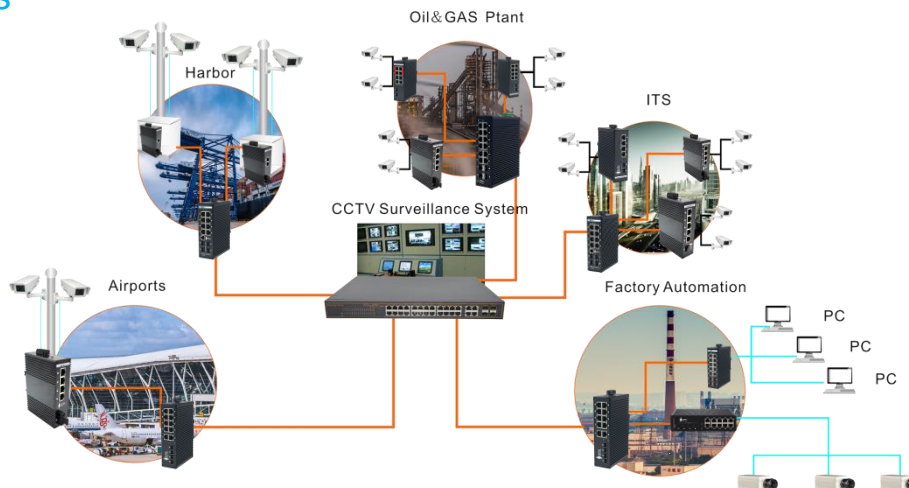


Ground terminal or screw

### Mechanical Drawing



### Applications



#### Ordering Information

BI6204E1F-SM-20KM	4 Ports 10/100Mbps Industrial Fiber switch With 1 SC
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