

LBT416BGSP-SFP

16-Port 10/100/1000BASE-TX+4G SFP Managed Industrial PoE Switch



LBT416BGSP-SFP is a hardened 20-port Industrial PoE Switch, provides non-blocking wire-speed performance in harsh industrial environment. It also provides 16-port 10/100/1000BASE-TX RJ45 (Port 1-12 PoE) +4G SFP delivered in an IP40 rugged, strong case with redundant power system. Its slim case is suitable for such applications as surveillance system deployments, control management and wireless service in climatically demanding environments with wide temperature range from -40°C to 80°C .

The LBT416BGSP-SFP provides the flexibility to all kinds of 10/100/1000Mbps Ethernet Media on RJ-45 port and performs highly stable fiber performance.

The LBT416BGSP-SFP is packaged in a compact IP40 case that allows either DIN rail or panel mounting to have efficient usage of cabinet space. It provides an integrated power supply with a wide range of voltages for worldwide operation. It also offers dual-redundant, reversible polarity 48V DC to 57V DC power supply inputs for high availability applications requiring dual or backup power inputs.

Features

- Data control: support 802.3x full duplex flow control, support network storm suppression
- Redundant network: support STP/RSTP/MSTP, support ERPS (self-healing time $<20\text{ms}$)
- Support IPv6, static routing
- Support DHCP Server, DHCP replay, QoS, IGMP Snooping
- Support port-based VLAN Port, IEEE 802.1Q VLAN and GVRP protocol, simple network planning
- QoS: Support QoS (IEEE 802.1p/1Q) and TOS/ Diffserv to increase network stability
- Security management: support ACL access control list, support 802.1x, support user classification management
- Management function: support Web, SNMP management mode
- Monitoring maintenance: support port mirroring, interface status monitoring, log management
- Support 1588 clock protocol

Specifications:

Model No.	LBT416BGSP-SFP
10/100/1000Base-TX Port	16-Port RJ-45 auto-MDI / MDI-X
PoE Specification	PoE Standard: IEEE802.3af/ IEEE802.3at
	PoE ports: Port 1-12
	Power Output:
	Max. 15.4 watts (IEEE 802.3af)
	Max. 30 watts (IEEE 802.3at)
	PoE port Auto detect AF/AT devices
	Output Voltage: DC48V
	Power Pin Assignment:1/2+;3/6-
	Power Type: End-span(Mid-span optional)
1000Base-FX Port	4G SFP Slot
Performance Specification	Bandwidth (switch capacity): 106Gbps
	Packet Buffer Memory:16Mbit
	Packet Forwarding Rate: 78Mpps
	MAC Address Table: 8K
Installation	DIN rail
Maximum Frame Size	9600bytes
Flow Control	Back pressure for half duplex, IEEE 802.3x pause frame for full duplex
Enclosure	IP40 Alluminum housing
LED Indicator	Power: Red
	Fiber: Link 2(Green)
	Ethernet: Yellow
Power Input	48 to 57V DC redundant power
Power Consumption	<10 watts
Surge protection	± 4KV
Network Protocols	IEEE802.3 10BASE-T;
	IEEE802.3i 10Base-T;

	IEEE802.3u;100Base-TX/FX; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE802.3x;
Network cables	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤10meter) 1000BASE-TX: Cat6 or later UTP(≤100 meter)
Industry Standard	EN55022/CISPR22, Class A IEC61000-4-2 (ESD): ±8kV (contact), ±12kV (air) IEC61000-4-3 (RS): 10V/m (80~1000MHz) 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)
Standard	CE RoHS complying
MTBF	>300,000hours
Dimensions (W x D x H)	166 × 137 × 68.5mm
Weight	Product Weight: 1.25KG Packing Weight: 1.35KG
Working Environment	Working temperature: -40~80° C ; Storage temperature: -40~80° C Relative Humidity: 5%~95 %(no condensation)
Warranty	5-year warranty.

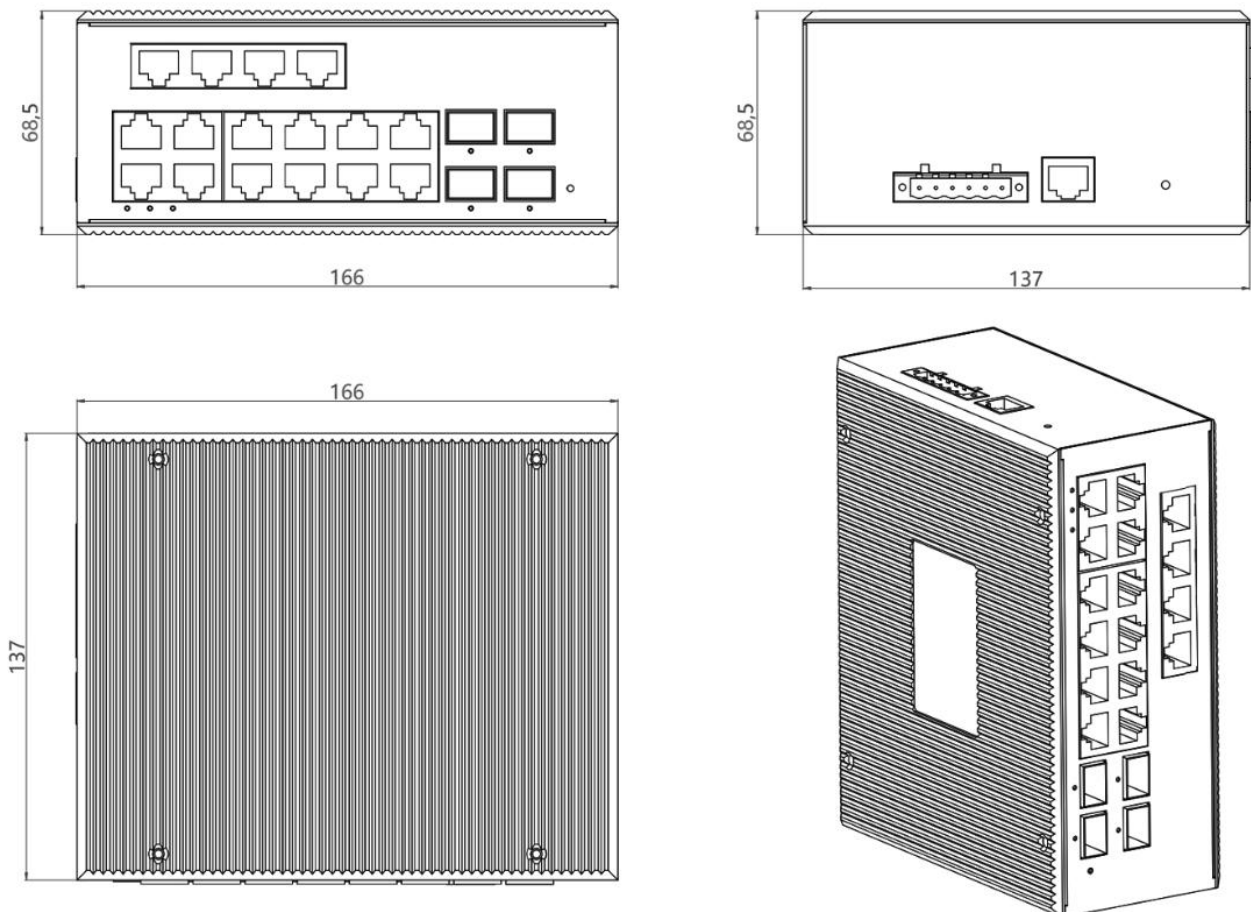
Management features:

Interface	IEEE802.3X (Full-duplex), Port temperature protection setting Port green Ethernet Energy-saving setting Broadcast storm control based on port speed. The speed limit of the message flow in the access port. The minimum particle size is 64Kbps.
Layer 3 Features	L2+ network management, IPV4/IPV6 management L3 soft routing forwarding, Static route, Default route @ 128 pcs, APR@1024pcs

VLAN	4K VLAN based on port, IEEE802.1q VLAN based on the protocol VLAN based on MAC Voice VLAN, QinQ configuration Port configuration of Access, Trunk, Hybrid
Port Aggregation	LACP, Static aggregation Max 8 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Industrial Ring	G.8032 (ERPS), Recovery time less than 20ms
Network Protocol	250 Ring at most, Max 250 devices per ring. Multicast
Multicast	MLD Snooping v1/v2, Multicast VLAN IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out
Port Mirroring	Bidirectional data mirroring based on port
QoS	Flow-based Rate Limiting Flow-based Packet Filtering 8*Output queues of each port 802.1p/DSCP priority mapping Diff-Serv QoS, Priority Mark/Remark Queue Scheduling Algorithm (SP, WRR, SP+WRR)
ACL	Port-based Issuing ACL, ACL based on port and VLAN L2 to L4 packet filtering, matching first 80bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.
Security	IP-MAC-VLAN-Port binding ARP inspection, Anti-DoS attack AAA & RADIUS, MAC learning limit Mac black holes, IP source protection IEEE802.1X & MAC address authentication Broadcast storm control, Backup for host datum SSH 2.0, SSL, Port isolation, ARP message speed limit User hierarchical management and password protection
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
Management	One-key recovery Cable Diagnose, LLDP Web Management (HTTPS) NTP, System work log, Ping Test CPU instant utilization status view

	Console/AUX Modem/Telnet/SSH2.0 CLI Download & Management on FTP, TFTP, X modem, SFTP, SNMP V1/V2C/V3
System	Category 5 Ethernet network cable Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later; TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network

Dimensions



Ordering Information

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