

BC2108PGM2G4F-13OW 14-port Full Gigabit Managed PoE Switch Datasheet



Ideal for:















Public Places

Airport





Overview

The BC2108PGM2G4F-130W is a L2+ managed PoE fiber switch. It has 10*10/100/1000Base-T RJ45 ports and 4*100/1000Base-X SFP fiber slot ports. Ports 1-8 can support IEEE802.3af/at standard PoE power supply. Single port PoE power is 30W, and the maximum PoE output power is 130W. As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP phone, building visual access control intercom through network cable, to meet the network environment that needs high-density PoE power supply, suitable for hotels, campuses, parks, supermarkets, scenic spots, Factory quarters and SMB small and medium-sized enterprises form a cost-effective network. The BC2108PGM2G4F-130W has L2+ full network management, support IPV4/IPV6 management, static route full line rate forwarding, security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS to improve link backup and network reliability. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as PoE power management, port traffic control, VLAN division, and SNMP through the Web network management mode.

FEATURES

Gigabit access
Gigabit SPF port uplink
Intelligent PoE power supply function
Strong business processing capability
Security
Stable and reliable
Easy operation and maintenance
management

Interface Characteristics			
Fixed Port	8*10/100/1000Base-T POE ports (Data /Power)		
	2*10/100/1000Base-T RJ45 ports (Data)		
	4*100/1000Base-X uplink SFP ports (Data)		
	1*Console RS232 port(115200,N,8,1)		
Ethernet Port	10/100/1000Base-T(X) auto-sensing, Full/half duplex MDI/MDI-X		
	self-adaption		
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter)		
	100BASE-TX: Cat5 or later UTP(≤100 meter)		
	1000BASE-T: Cat5e or later UTP(≤100 meter)		
SFP Slot Port	Gigabit SFP optical fiber interface, default matching optical modules		
	(optional order single-mode / multi-mode, single fiber / dual fiber optical		
	module. LC)		
Optical Cable/	Multi-mode: 850nm/0 \sim 550M, Single-mode: 1310nm/0 \sim 40KM,		
Distance	1550nm/0 ~ 120KM.		



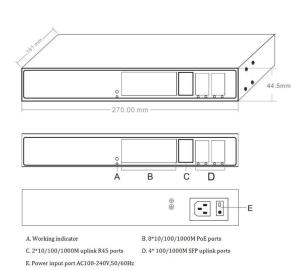
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14-port Full Gigabit
Managed PoE Switch

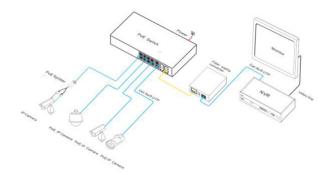
Datasheet



DIMENSION



APPLICATION



Chip Parameter	
Network Management Type	L2+
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	256Gbps (Non-blocking)
Forwarding Rate@64byte	20.83Mpps
MAC	8K
Buffer Memory	4M
Jumbo Frame	9.6K
CPU(Hz)	416M
DRAM	1G
FLASH	128M
LED Indicator	System: SYS (green), Network: Link(yellow), Fiber port: L/A (green), PoE: PoE (green)
Reset Switch	Yes, One-button factory reset
PoE & Power	
PoE Port	Port 1 to 8
	PoE working status
	Delay start of power supply
PoE Management	Total power limit of PoE power supply
	PoE output power allocation, off& af &at
	PoE output priority configuration
Dower Supply Dip	Scheduling of PoE operation and time
Power Supply Pin Max Power Per Port	Default 1/2 (+), 3/6 (-) 30W; IEEE802.3af/at
Total PWR / Input Voltage	130W /(AC100-240V)
Power Consumption	Standby<10W, Full Load<130W
Power Supply	Built-in switching power supply, AC 100~240V 50-60Hz 2.3A



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Physical Parameter	
Operation TEMP / Humidity	-20~+55°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+75°C, 5%~95% RH Non condensing
Dimension (L*W*H)	270*181*44.5mm
Net /Gross Weight	<2.7kg / <3.4kg
Installation	desktop type ,wall mounted , 19 inch 1U cabinet installation
Certification & Warra	nty
Lightning Protection / Protection Level	Lightning protection: 4KV 8/20us; Protection level: IP30
Certification	CCC, CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B, RoHS
Warranty	3 years, lifelong maintenance.
Network Managemen	t Features
	IEEE802.3X (Full-duplex)
	Port temperature protection setting
Interface	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.
	L2+ network management ,IPV4/IPV6 management
Layer 3 Features	L3 soft routing forwarding, Static route, Default route @ 128 pcs, APR
	@ 1024 pcs
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 7 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 254 devices per ring.
Multicast	MLD Snooping v1/v2,Multicast VLAN IGMP Snooping v1/v2, Max 250 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 80 bytes 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.
	IP-MAC-VLAN-Port binding
Cogurity	ARP inspection,Anti-DoS attack
Security	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
	One-key recovery
	Cable Diagnose,LLDP
Management	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, Xmodem, SFTP,SNMP
	V1/V2C/V3
	NMS - smart network management system platform(LLDP+SNMP)
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