

BCG-2004P

20-port (100/1G) SFP+ 4-Port SFP/RJ45 combo L2+ Ethernet Switch
Power Input : 100Vac ~ 240Vac



DESCRIPTION

BCG-2004P is a cost-effect high performance L2+ Ethernet management switch - 20-port (100/1G) SFP+ 4-Port SFP/RJ45 combo are supported. This switch supports remote management by SNMP, Http and Telnet interfaces, and local management by console interface. BCG-2004P supports lots of L2 switch management functions, e.g. 802.1Q VLAN, 802.1x Security, Rate Control, Port Configuration, Port Mirroring, Port Statistics, QoS functions, ... etc.

Features

- 20 * SFP ports, support 100Base FX or 1000Base-X
- 4* RJ45/SFP(100/1G) ports, auto-detect RJ45/SFP connection
- IPv6 management
- IPv4 Static routing
- 8 priority queues are supported on each port for QoS application
- Port-based VLAN, 802.1Q VLAN, Voice VLAN and Q-in-Q(double tagging) function
- Protected Port and LoopBack Detection function
- IEEE 802.1x security function, and VLAN assignment, Guest VLAN functions
- Static Mac address access limit and Dynamic Mac address number on port
- IEEE802.1d & 802.1w & 802.1s
- IP Multicast with IGMP snooping / query / fast leave / filtering /group limited /MVR
- DHCP Client / DHCP Option 82 Relay / DHCP Snooping function
- ACL function for L2 ~ L4 packet control, Ingress/Egress rate control on port
- Broadcast/Multicast/Unicast storm control
- ARP inspection / IP source guard
- RMON 1,2,3,9
- SFP Transceiver DDMI function
- Remote port configuration setting and statistics monitoring
- Text configuration download and upload

System Specifications

100/1G SFP Port	20
UTP/SFP Combo Port	4
CPU	416MHz MIPS 24Kec CPU as the main processor which integrated on switch controller
Memory	Flash : SPI 16M Bytes / RAM:DDRII 128M Bytes
Packet buffer	2M Bytes
MAC Table size	16K
Max Packet Size	9600 Bytes
Switching capability	14880pps at 10Mbps, 148810pps at 100Mbps, 1488095pps at 1Gbps with 64bytes packets.
Switch capacity	48Gbps
Forwarding Rate	35.7Mpps
FAN Design	Yes
Console port	D-Sub 9
19" Rack-Mount	Yes, with kits
SFP DDMI	Yes
Dimension	440(W) x 172(D) x 44(H) mm
Environmental Temperature	Operating : 0 - 50c Storage : -25 ~ 70c
Humidity	10% ~ 90% (non-condensing)
LED Display	Per Port : Link/Act (Green: Gigabit, Yellow:10/100M) Per Device : Power and System

Software Specifications

Port Control	Port speed, duplex mode, and flow control Port Auto MDI/MDI-X Port frame size (Jumbo frames), Maximum ingress frame size (10056 bytes) Port state (administrative status) Port status (link monitoring) Port statistics (MIB counters)
L2 Switching	Auto MAC address learning/aging and MAC addresses (static) DHCP snooping ARP inspection Port Mirroring Flow mirroring
L3 Switching	DHCP option 82 relay IPv4 Unicast: Static routing
VLANs	IEEE 802.1Q static VLAN(4096 entries Max.), Voice VLAN, Port isolation, Private VLAN Static, MAC based VLAN, Protocol based VLAN, IP subnet based VLAN
Spanning Tree	IEEE 802.1s MSTP(Multiple spanning tree) IEEE 802.1w RSTP(Rapid spanning tree) IEEE 802.1D STP(Spanning tree) BPDU Guard & Restricted Role Error Disable Recovery
Link Aggregation	Static and LACP
IP Multicast	IGMP v2 and v3 snooping MLD v1 snooping IGMP filtering profile IPMC throttling, filtering, leave proxy MVR and MVR profile
QoS	Traffic Classes (8 active priorities) Port Default Priority, User Priority, Input priority mapping QoS Control List (OCL Mode) Storm Control for UC, BC and Unknown Port policers Global/VCAP (ACL) policers Port egress shaper Queue egress shapers DiffServ (RFC2474) remarking Tag remarking Scheduler mode

Security	Port-Based 802.1X, Single 802.1X, Multiple 802.1X, MAC-Based Authentication VLAN Assignment , QoS Assignment, Guest VLAN RADIUS Accounting MAC Address Limit IP MAC binding, IP/MAC binding dynamic to static TACACS+ Web & CLI Authentication Authorization (15 user levels) ACLs for filtering/policing/port copy IP source guard
Synchronization	NTPv4 Client
SFP DDMI	Yes
Management	DHCP Client, DNS client, proxy HTTP Server CLI - Console Port & Telnet Text Configuration download or upload Management access filtering HTTPS SSHv2 IPv6 Management System Syslog Software Upload via web SNMP v1 / v2c / v3 Agent RMON (Group 1, 2, 3 & 9) RMON alarm and event(CLI,web) SNMP multiple trap destinations IEEE 802.1AB-2005 Link Layer Discovery LLDP Cisco Discovery filtering - CDP sFlow Daylight Saving

LED Specifications

LED	STATUS	CONDITION
Power	Lights(Green)	System is receiving power.
System	Lights(Green)	System is ready
Link / Act	Lights	Link is ready 1000Mbps : Green 100Mbps : Amber
	Flashing	Data packets being received or sent.