BORN
elegant creation

BC3108GM12T

Routing Switch

Ideal for:

- Telecom
- Hotels & Resorts
- Universities
- Healthcare
- Public Places
- Airport
- Transport
- Industries

OVERVIEW

The BC3108GM12T is a high-performance L3 managed switch designed For next-gen IP metropolitan, campus, and enterprise networks.it offers 8*10/100/1000M RJ45 ports and 12*1/10G SFP+ fiber ports with full L2/L3/L4 wire speed switching. Supporting advanced network services Like IPv6, MPLS VPN, and virtualization, it ensures reliable communic ation with features like uninterrupted upgrades, graceful restart, and Redundancy protection. With a 598Gbps switching capacity and Protocols like RIP, OSPF, BGP, and PIM-DM/SM, this switch is ideal for High-bandwidth environments such as smart campuses, cities, and Transportation networks.

FEATURES

- Advanced hardware architecture, powerful processing capabilities
- Strong data service guarantee
- Rich Business features
- Security
- Stable and reliable
- Easy Maintenance

PICTURE

BC3108GM12T
Routing Switch

TECHNICAL SPECIFICATION

Model	BC3108GM12T
Interface Characteristics	
Fixed Port	8*10/100/1000M RJ45 ports (Data) 12*1/10G SFP+ fiber ports(Data) 1* Console RS232 port (9600,8,N,1)
Ethernet Port	10/100/1000Base-T 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)
Optical Fiber Port	1/10G SFP+ optical fiber interface, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)
Optical Cable/ Distance	Multi-mode: 850nm / 0 ~ 500m, single mode: 1310nm/ 0 ~ 40km, 1550nm/ 0 ~ 120km.
Chip Parameter	
Network Management Type	L3
Network Protocol	IEEE802.3u 100Base-TX , IEEE802.3ab 1000Base-T
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	598Gbps (non-blocking)
Forwarding Rate@64byte	136Mpps

BORN
elegant creation

BC3108GM12T
Routing Switch

MAC	32K
Buffer Memory	32M
Jumbo Frame	9K
LED Indicator	Power: PWR (green), system: SYS (green),network:G1G8 (green), Fiber port: TE1-6 (green)
Reset Switch	Yes. Press and hold for 10 seconds and release to restore factory settings
Power Supply	
Total PWR/Input Voltage	75W/(AC100-240V)
Power Consumption	Standby<20,Full Load<40W
Power Supply	Built-in power supply AC100~240V 50-60Hz 1A
Physical Parameters	
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)	442.5*315*44mm
Net/Gross Weight	<5.8kg / <6.2kg
Installation	Desktop,19 inch 1U cabinet installation

BC3108GM12T
Routing Switch

Power Supply	
Lightning Protection/ Protection level	Port lightning protection: 6KV 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 Management Features	
Virtualization and Stacking	Virtualization Distributed equipment management, distributed link aggregation, distributed flexible routing Stacking via standard Ethernet interface Local stacking and remote stacking MAD stack split detection based on LACP, BFD, ARP
IPv4	PBR, ECMP BFD for OSPF, BGP Static routing, RIP v1/v2, OSPF, BGP,IS-IS,BEIGRP
IPv6	MLD V1/V2, MLD snooping ICMPv6, DHCPv6, ACLv6 and IPv6 Telnet IPv6 Static Routing, RIPng, OSPFv3,BGP4+ Manual tunnel, ISATAP tunnel, 6 to 4 tunnel IPv6 neighbor discovery, Path MTU Discovery
MAC Switching Capacity	Black-hole MAC items IEEE 802.1AE MacSec MAC address filtering function Check and delete MAC address Configuring MAC address aging time Limit on MAC address learning number Static configuration and dynamically learning of MAC address

BORN
elegant creation

BC3108GM12T
Routing Switch

VLAN	GVRP Private VLAN 4K Active VLAN QinQ & selective QinQ 1:1 and N:1 VLAN Mapping
Link Aggregation	10GE port aggregation,Static aggregation,Dynamic aggregation
Flow Monitoring	sFLOW
DHCP	DHCP server/relay/client/snooping DHCP auto-config and CWMP-TR069 DHCP Snooping option82/DHCP Relay option82
STP/ERPS	ERPS(G.8032) 802.1D (STP), 802.1W (RSTP),802.1S (MSTP) BPDU protection, root protection and ring protection
Multicast	IGMP V1/v2/v3 IGMP Snooping IGMP Fast Leave PIM-SM and PIM-DM Multicast traffic cross VLAN duplication Multicast group policy and multicast number limit
ARP	Free ARP, Static entry, ARP anti-attack Standard proxy ARP and local proxy ARP Dynamic ARP Inspection, ARP source suppression ARP inspection (check according to DHCP Snooping, 802.1x table entry, or IP/MAC static binding)
Mirroring	Flow mirroring, N:4 port mirroring, Local and remote port mirroring
MPLS VPN	MCE MPLS TE MPLS OAM LDP protocol P/PE of MPLS VPN

BC3108GM12T
Routing Switch

QoS/ACL	CAR flow limit
	Tail-Drop and WRED
	802.1p/DSCP priority mapping
	Traffic policing and traffic shaping
	DRR, SP, and DRR+SP queue scheduling algorithms
	Hash load balancing to ensure the integrity of the traffic output session
	Traffic classification based on each field of the L2/L3/L4 protocol header
	Ingress and Egress ACL, matching L2, L3, L4, and IP quintuple, copy, forward, and discard
Security	uRPF
	Port isolation
	Radius and BDTacacs+
	IEEE 8021x certification
	DHCP Snooping, DHCP Option 82
	Command line hierarchical protection
	Port security, IP + MAC + port binding
	Identification and filtering of L2/L3/L4 based ACL
	Suppression of broadcast, multicast, and unknown unicast packet
	Defend against DDoS attack, SYN Flood attack of TCP, and UDP Flood attack
Reliability	ISSU
	EAPS,ERPS
	HSRP,VRRP
	GR for OSPF and BGP
	BFD for OSPF and BGP
	Power supply 1+1 backup
	Static/LACP link aggregation and cross service card link aggregation

BC3108GM12T
Routing Switch
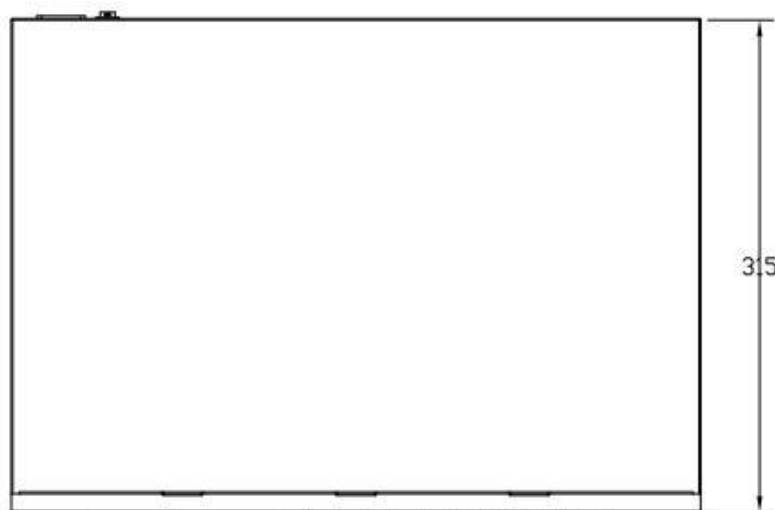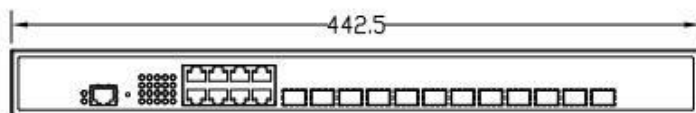
Management	NTP ISSU Track System logs Ping,Tracert Power alarm Graded alarm SNMP v1/v2/v3 RMON event history 802.1AG and 802.3AH Fan, temperature alarm Console,Telnet,SSH 2.0 Debug information output Web browser management Telnet remote maintenance ZTP(Zero Touch Provisioning) sFLOW and other traffic statistics analysis SNMP(Simple Network Management Protocol) File upload and download management in TFTP mode
Energy Saving	IEEE802.3az green energy Ethernet
System	Category 5 Ethernet network cable Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or higher TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on Each computer in a network

BC3108GM12T
Routing Switch

DIMENSION

BC3108GM12T
Routing Switch

Model	Description	Power Supply
BC3108GM12T	L3 managed 10G uplink Ethernet core routing switch with 8*10/100/1000M RJ45 ports and 12*1/10G SFP+ fiber slot ports. built-in power supply. 19 inch 1U cabinet installation	75W

Note: SFP optical module needs to be purchased separately. Please refer to the optical module information

	CONTENT	QTY	UNIT
PACKING LIST	20-port 10G uplink core routing switch	1	SET
	AC power cable	1	PC
	RJ45 to DB9 adapter cable	1	PC
	Mounting kits(hanging ears)	1	SET