5208GX4-Router Datasheet

Aiming to create better and safer working environments and life experiences through the products we deliver.

5208GX4-Router

5208GX4-Router Multi-service edge Router

The 5208GX4-Router is a multi-service Router designed and developed by EAVCOMM for the edge access scenarios of wide area network (WAN), such as operators' ICT, financial outlets, e-government, and public security. 5208GX4-Router is based on low power consumption and MIPS multi-core embedded platform. It adopts the design concept of integrated routing and switching, supports comprehensive Ethernet and various WAN link protocols, supports abundant routing protocols, VPN and other security functions, and provides a variety of QoS policies to choose from. It ensures key services for users. The product provides multiple universal high-speed expansion slots for E1, serial port, and 3G/4G network access, meeting networking requirements in complex scenarios.

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Powerful performance
- AVCOMM 5208GX4-Router adopts 64-bit multi-core processor, with special ASIC high-speed switching engine and FPGA device. The whole hardware platform runs on high-speed Ethernet architecture. This innovative design enables the BSR to deliver ultra-high processing performance and efficiency, enabling the system to handle large flows and improve stability.

Excellent energy saving characteristics
- 5208GX4-Router series uses low power consumption energy-saving chip, the power consumption of the whole machine is reduced by 15%~20% compared with the mainstream equipment in the industry. Users can further reduce maintenance costs when using BSR devices for a long time, which conforms to the concept and trend of low carbon and energy saving.

Rich network security features
- Supports flexible ACL firewall filtering and NAT address translation technology to protect user networks from potential threats from external networks. It supports IPSec, L2TP, PPTP, GRE and other VPN technologies, providing a low-cost solution for users' private networks and greatly enhancing user data security. Supports multiple security technologies, such as AAA, Radius, and PAP/CHAP, to implement security authentication for access users, improving network security.

Practical traffic management strategies
- AVCOMM 5208GX4-Router series supports the self-developed elastic flow control and behavior management strategy GBSC, which can automatically detect the quality of the eexit network and dynamically allocate bandwidth services to each user according to the current available bandwidth. At the same time, GBSC ensures that key services and key users are prioritized. BSR routers also support various queue scheduling technologies and traffic management policies, such as FIFO, PQ, CQ, CBWFQ, LLQ, WFQ, DSCP, IP Precedence, RTS, RSVP, and CAR, enabling efficient utilization of user network bandwidth.

Advanced business Integration
- Support MPLS VPN technology to implement transparent Ethernet transmission services and flexible enterprise interconnection. Fully supports Ipv4/ V6 dual-stack protocols to smooth the transition from existing networks to IPv6 upgrades.

A comprehensive routing protocol
- Supports rich Layer 2 link protocols such as HDLC, PPP, and DOT1Q. Supports dynamic routes such as static routes, RIP, OSPF, BGP, BEIGRP, and PBR, and is fully compatible with devices from mainstream manufacturers. In addition, it supports multi-service integration of routing, switching, security, and wireless, which can meet the construction requirements of various complex networks.

Ordering Information

Model Name	Description
5208GX4-Router	5200 series multi-service router (standard configuration: 1 CON, 1 USB2.0, 4 Gigabit SFP, 4 Gigabit electrical ports; 2 HIC slots available)

Tel: 713-933-4534   Web: www.avcomm.us   Email: info@avcomm.us

Model	5208GX4-Router	
Management interface	1 CON	
Business port	4 GE-SFP and 4 GE-TX	
Extension interface	1 USB2.0 and 2 HIC slots	
Forwarding performance	Maximum 5Mpps	
Recommended access bandwidth	About 500Mbps	
Maximum concurrent user	400-500	
Input power	220VAC（Supports dual power inputs）	
Dimension	440*300*88mm	
Operating Temperature	-10℃～50℃	
Operating Humidity	5%～95% Non- Condensing	
Link protocol	PPP、MPPP、PPPoE、ARP	
Network protocol	TCP、UDP、ICMP	
layer 2 switch	802.3、802.1Q VLAN 、broadcast storm suppression	
3G/LTE	WCDMA、CDMA2000、TD-SCDMA TDD-LTE、FDD-LTE	
Web service	NAT、NAPT、ALG、DHCP、DNS、DDNS、SNTP、PPPoE Srv	
Routing protocol	Static routing、RIP、OSPF、BGP、PBR	
Multi-channel strategy	Equal-cost routing, weighted routing, intelligent uplink selection, and remote detection、BFD	
QoS scheduling	FIFO、PQ、CQ、WFQ、CBWFQ GBSC Flexible strategy、L7Filter	
Network security	AAA、PAP、CHAP、MS-CHAP IP-ACL、MAC-ACL、IMP-Filter IPSec、EZVPN、L2TP、PPTP、GRE Flood attack defense and ARP attack defense Anti-attack Ping of Death、Tear-drop、WinNuke、PingSweep	
Multicast protocol	IGMP、PIM-SM、PIM-DM	
IPv6	IPv6 basic: ND, PMTU, ACL IPv6 transition: Dual-Stack, Tunneling, and NAT IPv6 routes: RIPng, OSPFv3, BGP4+	
Management of maintenance	CON、Telnet、SSH、SNMP、HTTP Ping、Trace-route、Syslog TFTP、FTP	
100Base FX		
Multi mode	AVC-SFP-FX-SX （550m）	Wavelength: 850 nm
	AVC-SFP-FX-S （2km）	Wavelength: 1310 nm
Single mode	AVC-SFP-FX-10 (10km)	Wavelength: 1310 nm
1000Base FX		
Multi mode	AVC-SFP-SX （550m）	Wavelength: 850 nm
	AVC-SFP-LX-S （2km）	Wavelength: 1310 nm
Single mode	AVC-SFP-LX-10 (10km)	Wavelength: 1310 nm