



H3C MSR610 Router

Branch Router

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New H3C Technologies Co., Limited

Product overview

The MSR600 series can be deployed as an egress router for small- to medium-sized enterprise networks to operate with VPN, NAT, and IPSec service gateways. Together with other H3C products, the MSR600 series can provide comprehensive network solutions for government, power, financial, tax, public security, railway, and education customers.



H3C MSR610 router

Features and benefits

Advanced technologies

- Uses H3C's leading Comware network operating system to provide intelligent service scheduling management mechanism and supports loose coupling of different service modules as well as the dynamic loading of processes and patches.

Powerful security features

- Service security
 - Packet filtering, including stateful filtering, MAC address filtering, IP and port number filtering, and time range filtering.
 - Real-time traffic analysis.
- Network security
 - Rich and comprehensive VPN technologies, including IPSec, L2TP, GRE, MPLS VPN and mix usage of different VPN technologies.
 - Routing security protection, including OSPF/RIP/IS-IS/BGP dynamic routing protocol, OSPFv3/RIPng/IS-ISv6/BGP IPSec encryption and rich routing policy control functions.
- End device access security
 - Unified endpoint access binding authentication, including EAD secure check authentication, 802.1X authentication, endpoint MAC address authentication, web-based portal authentication, endpoint access static binding, and MAC address auto-learning and binding.
 - ARP attack prevention, including fixed source MAC address, ARP attack protection, ARP source suppression, ARP detection, source MAC consistency check and protection, ARP rate limit, and ARP active acknowledgement mechanism.

- Equipment management security
 - Role-based access control that allocates resources based on roles, and provides users and roles mapping.
 - Control plane traffic restriction, traffic control and filtering based on protocol type, queue, known protocol and specific protocol.
 - Remote security management, such as SNMPv3, SSH, and HTTPS remote management.
 - Management behavior control and audit, including AAA server central authentication, command line authority and real-time report of operation records.

Granular control

- Uses granular identification and control to rate limit and filter application layer services and ensure bandwidth and provides detailed network statistics for network optimization.
- Performs load balancing based on bandwidth, user, user group, service, or application by using asymmetric link, traffic load balancing, and multi-topology dynamic routing technologies.
- Supports flexible bandwidth sharing based on service, user, user group, link, and user bandwidth.

Intelligent network management

- Cloudnet APP management
- Comprehensive network management methods—Supports command line and SNMP.
- Zero-configuration setup—Enables zero configuration setup, USB-based and URL-based automatic configuration.
- Comware embedded EAA function—Monitors the internal events and status of the system's software and hardware components. If a fault occurs, it collects diagnostic information and attempts to make automatic repairs as well as sending the diagnostic information to a specific email address.

High availability

- Independent hardware processing module for monitoring and programmable components that supports online upgrade and auto loading to strengthen product reliability.
- Millisecond link fault detection technology Bidirectional Forwarding Detection (BFD) and Track between BFD and static routing, RIP/OSPF/BGP/ISIS dynamic routing, VRRP, or interface backup.
- Network quality analyzer (NQA) and Track between NQA and static routing, VRRP, or interface backup.
- Multi-device redundancy and load balancing (VRRP/VRRPE).

Technical specifications

Hardware specifications

Item	MSR610
Forwarding Performance In Service (IMIX)	200 Mbps
CPU	800MHz
Memory	1 GB
Internal Flash	256 MB
External Flash	NA
USB ports	1
Console ports	1
WAN ports	1 × GE copper port 1 × SFP port
LAN port	4 × GE ports (can be configured as WAN interfaces)
Max power consumption	24W
Power voltage(adapter)	External power adapter: 100 VAC to 240 VAC @ 50 Hz/60 Hz
Power voltage(device)	DC 12V 2A
Dimensions (W × D × H)	210 x 140 x 44 mm
Operating temperature	0°C to 40°C (32°F to 104°F)
Operating humidity	5% RH to 95% RH, non-condensing
EMC	FCC Part 15 (CFR 47) CLASS A ICES-003 CLASS A VCCI-3 CLASS A VCCI-4 CLASS A CISPR 22 CLASS A EN 55022 CLASS A AS/NZS CISPR22 CLASS A CISPR 24 EN 55024 EN 61000-3-2 EN 61000-3-3 EN 61000-6-1

Item	MSR610
Safety	ETSI EN 300 386
	EN 301 489-1
	EN 301 489-17
	UL 60950-1
	CAN/CSA C22.2 No 60950-1
	IEC 60950-1
	EN 60950-1/A11
	AS/NZS 60950
	EN 60825-1
	EN 60825-2
	FDA 21 CFR Subchapter J
GB 4943	

Software specifications

Item	Specification
Layer 2 switching	Ethernet, Ethernet II, VLAN (port-based VLAN, guest VLAN), 802.3x, 802.1p, 802.1Q, 802.1X, STP (802.1D), RSTP (802.1w), MSTP (802.1s), PPP, PPPoE client, PPPoE server, and DDR
IP services	Unicast/multicast, TCP, UDP, IP option, IP unnumbered, policy-based routing, NetStream, and sFlow
IP application	Ping, Tracert, ICMP, DHCP server, DHCP relay, DHCP client, DNS client, DNS proxy, DDNS, NTP, and SNTP
IPv4 routing	Static routing
	Dynamic routing: RIPv1/v2, OSPFv2, BGP, IS-IS
	Route iteration
	Policy routing
	Equal-cost multi-path routing (ECMP)
QoS	Multicast routing: IGMPv1/v2/v3, PIM-DM, PIM-SM, MBGP, MSDP
	LR, port-based mirroring, Port Trust Mode, and port priority
	Committed access rate (CAR)
	FIFO, WFQ, CBQ
Security	Generic Traffic Shaping (GTS)
	Traffic classification
Security	PPPoE client & server, portal, 802.1X

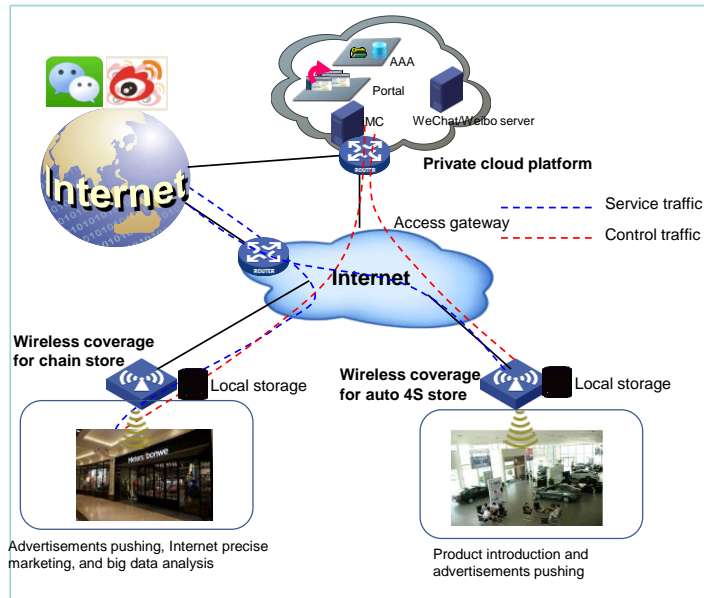
Item	Specification
	Local authentication, RBAC, RADIUS, TACACS+
	Basic Firewall Function, ASPF, ACL, filter, connection limit
	IKE, IPsec
	L2TP, NAT/NAPT, PKI, RSA, SSH v1.5/2.0, URPF, mGRE, GRE
	ARP attack prevention
	SSL VPN, GDVPN
	AES, DES, 3DES, MD5, SHA1
	VRRP, VRRPv3
High availability	Bandwidth-based load balancing and backup
	IP address-based load balancing and backup
	NQA collaboration with routing, VRRP or interface backup
	Cloudnet APP management
	SNMP v1/v2c/v3, MIB, SYSLOG, RMON
Management and maintenance	BiMS remote management, booting from USB drive
	CLI, file system, and dual image
	DHCP, FTP, HTTP, ICMP, UDP public, UDP private, TCP public, TCP private, and SNMP
	Console port login, Telnet (VTY) login, SSH login, and FTP login

Application scenarios

Chain enterprises wireless marketing solution

For commercial chain enterprises, MSR610 routers are ideal wireless coverage products for their branches and outlets. One MSR610 router itself can provide network security, routing, and switching services for an outlet, simplifying network deployment and management. The IMC and service platforms deployed at the center perform centralized management for the branches and outlets, improving the network deployment and management efficiency.

- One MSR610 itself deployed at the outlet can provide network security, wireless connection, routing, and switching services.
- The MSR610 can store PHP dynamic webpages, pictures, flashes, videos, etc. and push the advertising and multimedia contents to the clients if they come online, which avoids occupying the network bandwidth.
- The router supports online activity management and audit and performs granular traffic control.



Chain enterprises marketing solution

Ordering information

Model	Description
RT-MSR610	H3C MSR610 Enterprise-Level 6-Port Gigabit Ethernet Router



The Leader in Digital Solutions

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