

H3C MSR3600 ICT Converged Gateway

Series

Product overview

H3C MSR3600 ICT Converged Gateway series integrates computing and storage capabilities and offers an open operating architecture. It can fast integrate with third-party customized applications to improve service processing efficiency and reliability at remote sites. The MSR3600 has the following benefits:

- CT and IT integration—Runs the industry-leading H3C Comware network operating system and integrates computing and storage capabilities to simplify network deployment and lower the total cost of ownership (TCO).
- Professional x86 hardware virtualization platform—Uses resource pools to manage hardware resources including CPU, memory, storage, and interface to enable flexible and dynamic resource allocation and adjustment based on the actual requirements.
- Unified AD-EC management platform—Supports unified management of both CT and IT services to improve maintenance efficiency.
- Service online release—Supports fast online release and deployment of new services through the AD-EC platform at any time without service interruption.
- Open architecture—Supports standard Windows or Linux for fast service integration. The AD-EC platform also provides open APIs for users to develop new applications and value-added services.

The MSR3600 ICT Converged Gateway series has two models: MSR3610-I-DP and MSR3610-IE-DP.



MSR3610-I-DP/MSR3610-IE-DP

Features and benefits

CT and IT integration

- Runs H3C's state-of-art Comware network operating system and supports security, switching, wireless, and routing services.
- Integrates computing and storage capabilities and supports an external drive.
- Uses a professional hardware virtualization platform to group hardware resources including CPU, memory,

storage, and interface in resources pools to enable flexible and dynamic resource allocation and adjustment based on the actual requirements.

Unified AD-EC management platform

- Device management and operating status monitoring—Manages versions, configurations, groups, and regions.
- CT service management—Configures VPN services, monitors operation state, controls bandwidth, and analyzes app statistics.
- IT services management—Performs computing and storage resource status monitoring, service status management (start, stop, and restart), and new service online release.

Fast deployment from USB drive

Supports CT and IT service deployment from a USB drive, making it possible to deploy a large number of MSR3600 gateways in a short time.

Rich interfaces for network expansion

- Provides GE copper, GE fiber, RS232, 3G/4G-LTE, and WiFi interfaces.
- Provides multiple slots for expansion of Zigbee and Bluetooth modules. H3C Zigbee and Bluetooth modules will be available in the future.

Open architecture

- Supports the standard Windows, CentOS, Ubuntu, and RedHat operating systems for quick and smooth integration with customized services of third parties.
- Provides open RESTful APIs on the AD-EC platform for third parties to develop application-layer and value-added services.

Technical specifications

Hardware specifications

Item	MSR3610-I-DP+DDR4-8GB	MSR3610-IE-DP+DDR4-16GB
CPU	X86, Quad-core, 2.2 GHz	X86, eight-core, 2.2 GHz
Forwarding throughput	9 Mpps	15 Mpps
Memory (default/maximum)	8 GB	16 GB
Internal Flash	4 GB (EMMC)	64 GB (EMMC)
HDD slot (2.5 inch)	1	1

Item	MSR3610-I-DP+DDR4-8GB	MSR3610-IE-DP+DDR4-16GB
USB port	1(USB3.0)	1(USB3.0)
Console port	1	1
WAN ports	2 × GE combo ports	2 × GE combo ports
LAN ports	6 × GE ports	6 × GE ports
SIC slot	4	4
Operating system	Support for KVM Support for Windows, CentOS, Ubuntu, and RedHat	Support for KVM Support for Windows, CentOS, Ubuntu, and RedHat
Max power consumption	54 W	54 W
Power redundancy	Supported	Supported
Power voltage	AC: 100 VAC to 240 VAC @ 50 Hz/60 Hz	AC: 100 VAC to 240 VAC @ 50 Hz/60 Hz
Height	1 RU	1 RU
Dimensions (H × W × D)	43.6 × 440 × 360 mm (1.72 × 17.32 × 14.17 in)	43.6 × 440 × 360 mm (1.72 × 17.32 × 14.17 in)
Operating temperature	Without a hard disk: 0°C to 45°C (32°F to 113°F) With hard disk: 5°C to 40°C (41°F to 104°F)	
Operating humidity	Without a hard disk: 5% RH to 95% RH, non-condensing With a hard disk: 10% RH to 80% RH with hard disk, non-condensing	
Storage temperature	−40°C to +70°C (−40°F to +158°F)	
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 ETSI EN 300 386 EN 301 489-1	

Item	MSR3610-I-DP+DDR4-8GB	MSR3610-IE-DP+DDR4-16GB
	EN 301 489-17	
Security	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, 802.1p, 802.1Q, 802.1X, STP (802.1D), RSTP (802.1w), MSTP (802.1s), PPP, PPPoE Client, and PPPoE Server
IP services	Unicast/multicast, TCP, UDP, IP option, IP unnumbered, policy-based routing, and NetStream ECMP UCMP
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 Multicast routing: IGMPv1/v2/v3, PIM-DM, PIM-SM, MBGP, MSDP
IPv6	IPv6 ND, IPv6 PMTU, IPv6 FIB, IPv6 ACL, NAT-PT, 6PE, and DS-LITE IPv6 tunneling: manual tunneling, automatic tunneling, GRE tunnel, 6to4, ISATAP Static routing Dynamic routing: RIPng, OSPFv3, IS-ISv6, BGP4+ IPv6 multicast: MLDv1/v2, PIM-DM, PIM-SM
QoS	LR Committed access rate (CAR)

Item	Specification
	FIFO, WFQ, CBQ Generic Traffic Shaping (GTS) Traffic classification
3G/4G	Built-in 3G/4G connectors Support for TDD/FDD LTE, TD-SCDMA, and WCDMA/HSPA+ Support for USB 3G/4G LTE Modem
Security	Portal, 802.1X Local authentication, RBAC, RADIUS, TACACS+ ASPF, ACL, filter, connection limit IKE, IPSec ADVPN L2TP, NATPKI, RSA, SSHv1.5/2.0, URPF, and mGRE ARP attack prevention Endpoint Admission Defense (EAD)
MPLS	LDP, Static LSP L3VPN: MCE/multirole host L2VPN: Martini, Kompella, CCC PWs and static PWs
High availability	VRRP, VRRPv3 Bandwidth-based load balancing and backup IP address-based load balancing and backup NQA collaboration with routing, VRRP or interface backup
Management and maintenance	SNMP v1/v2c/v3, MIB, SYSLOG, RMON 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, SNMP Console port login, Telnet (VTY) login, SSH login, and FTP login EAA
Virtualization	Integration of a highly available and high-performance open virtualization platform that supports third-party operating systems, such as Windows, CentOS, Ubuntu, and RedHat Complete lifecycle management of virtual machines, including VM creation, modification, startup, pause, recovery, hibernation, reboot, shutdown, and power-off Monitoring of critical VM resources, such as VM CPU, memory, disk I/O, and network I/O

Item	Specification
	<p>Support of high-performance virtualization Ethernet adapter and SR-IOV to virtualize the physical Ethernet adapter into several virtual adapters for VMs</p> <p>Support of fast app deployment, app deployment to VMs through USB disk, and unified app deployment throughout the network</p> <p>Complete troubleshooting and recovery mechanism</p> <p>Scheduled backup and manual backup</p> <p>Real-time monitoring of VM state</p> <p>VM anomaly detection and auto reboot</p>

Ordering information

Model	Description
MSR3610-I-DP+DDR4-8GB	H3C MSR3610-I-DP ICT converged gateway + DDR4 8GB memory
MSR3610-IE-DP+DDR4-16GB	H3C MSR3610-IE-DP ICT converged gateway + DDR4 16GB memory
Disk	
HDD-500G-SATA-3G-5.4K-SFF	500GB 2.5inch SATA HDD HardDisk Module
HDD-2T-SATA-6G-5.4K-SFF	2TB 2.5inch SATA HDD HardDisk Module
SIC module	
RT-SIC-4GSWF	4-port 100BASE-FX/1000BASE-X(SFP) Ethernet L2/L3 SIC Module
RT-SIC-4GSW	4-Port 10/100/1000BASE-T L2 Switch SIC Module

New H3C Technologies Co., Limited

Beijing base
8 GuangShun South Street, Chaoyang District, Beijing
Zip: 100102



Hangzhou base
466 Changhe Road, Binjiang District, Hangzhou, Zhejiang
Province 310052 P.R.China
Zip: 310052
Tel: +86-571-86760000
Fax: +86-571-86760001

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