

# H3C MSR3600

## Router Series

### ICT Converged Gateway Router

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## 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

### Next Generation 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, Provides multiple slots for port expansion.

## 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 performance(iMIX)	2.5 Gbps	3.5 Gbps
Memory (default/maximum)	8 GB	16 GB
Flash	4 GB (EMMC)	64 GB (EMMC)
HDD slot (2.5 inch)	1	1
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(can be configured as WAN interfaces)	6 × GE ports(can be configured as WAN interfaces)
SIC slot	4	4
Performance(1518B)	3.9 Gbps	3.9 Gbps



Item	MSR3610-I-DP+DDR4-8GB	MSR3610-IE-DP+DDR4-16GB
	Support for KVM	Support for KVM
Operating system	Support for Windows, CentOS, Ubuntu, and RedHat	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)	
	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	
EMC	CISPR 24	
	EN 55024	
	EN 61000-3-2	
	EN 61000-3-3	
	EN 61000-6-1	
	ETSI EN 300 386	
	EN 301 489-1	
	EN 301 489-17	
	UL 60950-1	
Security	CAN/CSA C22.2 No 60950-1	
	IEC 60950-1	
	EN 60950-1/A11	



Item	MSR3610-I-DP+DDR4-8GB	MSR3610-IE-DP+DDR4-16GB
	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
	Static routing
	Dynamic routing: RIPv1/v2, OSPFv2, BGP, IS-IS
IPv4 routing	Route iteration
	Policy routing
	Multicast routing: IGMPv1/v2/v3, PIM-DM, PIM-SM, MBGP, MSDP
	IPv6 ND, IPv6 PMTU, IPv6 FIB, IPv6 ACL, NAT-PT, 6PE, and DS-LITE
	IPv6 tunneling: manual tunneling, automatic tunneling, GRE tunnel, 6to4, ISATAP
IPv6	Static routing
	Dynamic routing: RIPng, OSPFv3, IS-ISv6, BGP4+
	IPv6 multicast: MLDv1/v2, PIM-DM, PIM-SM
	LR
	Committed access rate (CAR)
QoS	FIFO, WFQ, CBQ
	Generic Traffic Shaping (GTS)
	Traffic classification
	Portal, 802.1X
Security	Local authentication, RBAC, RADIUS, TACACS+
	Basic Firewall Function, ASPF, ACL, filter, connection limit



Item	Specification
	<p>IKE, IPsec</p> <p>ADVPN, GDVPN, SSL VPN</p> <p>L2TP, NAT, PKI, RSA, SSHv1.5/2.0, URPF, mGRE, GRE</p> <p>ARP attack prevention</p> <p>Endpoint Admission Defense (EAD)</p> <p>AES, DES, 3DES, MD5, SHA1</p> <p>LDP, Static LSP</p>
MPLS	<p>L3VPN: MCE/multirole host</p> <p>L2VPN: Martini, Kompella, CCC PWs and static PWs</p> <p>VRRP, VRRPv3</p>
High availability	<p>Bandwidth-based load balancing and backup</p> <p>IP address-based load balancing and backup</p> <p>NQA collaboration with routing, VRRP or interface backup</p> <p>SNMP v1/v2c/v3, MIB, SYSLOG, RMON</p> <p>BiMS remote management, booting from USB drive</p>
Management and maintenance	<p>CLI, file system, and dual image</p> <p>DHCP, FTP, HTTP, ICMP, UDP public, UDP private, TCP public, TCP private, SNMP</p> <p>Console port login, Telnet (VTY) login, SSH login, and FTP login</p> <p>EAA</p> <p>Integration of a highly available and high-performance open virtualization platform that supports third-party operating systems, such as Windows, CentOS, Ubuntu, and RedHat</p> <p>Complete lifecycle management of virtual machines, including VM creation, modification, startup, pause, recovery, hibernation, reboot, shutdown, and power-off</p> <p>Monitoring of critical VM resources, such as VM CPU, memory, disk I/O, and network I/O</p>
Virtualization	<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

Product ID	Description
RT-MSR3610-I-DP+DDR4-8GB	H3C MSR3610-I-DP ICT converged gateway + DDR4 8GB memory
RT-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
RT-SIC-2SAE	2-port Enhanced Sync/Async Serial SIC Module
RT-SIC-4SAE	4-port Enhanced Sync/Async Serial SIC Module
RT-SIC-1E1-F-V3-H3	1-Port Fractional E1 Interface SIC Module
RT-SIC-2E1-F-H3	2-Port Fractional E1 Interface SIC Module
RT-SIC-4G-CAT6	4G LTE CAT6 SIC module

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