

## **S5600 Series Switches Datasheet**



- **S5612X-16G8N2Q-SI:** 8\*100/1000 BASE-T and 8 port 1G SFP and 12 port 10G SFP+ L3 Managed Ethernet Switch with 2\*40Gb QSFP28 and 8\*10G/25G SFP28 Uplinks



- **S5612X-16G8N2Q-EI:** 8\*100/1000 BASE-T and 8 port 1G SFP and 12 port 10G SFP+ L3 Managed Ethernet Switch with 2\*40Gb QSFP28 and 8\*10G/25G SFP28,1+1 Redundancy PSU

### **OVERVIEW**

S5600 Series routing switches, high-performance Layer 3 Ethernet switch with 100M/ 1000M /10G SFP+ /25G SFP28/40G QSFP28 Ports compact 1U form factor. The FOS delivers robust feature support, Provide complete Layer 3 network features.

Built from the ground up with the combination of advanced hardware and software, the switch provides a powerful Layer 3 routing solution for next generation enterprise, Wi-Fi 6 Access, Metro and HCI (Hyper Converged Infrastructure) networks.

#### **Based on Carrier Grade High performance chip**

S5600 Series routing switches, which are designed based on sixth generation ethernet switching chip. The Carrier Grade high-performance chip which help the S5600 to meet the requirement of Metro/Enterprise/Data Center/HCI networks.

#### **Varied Port Types**

Support 10M/100M/1G /10G / 25G/40Gports to meet different network requirements.

#### **System Design for Green and Energy Saving**

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Intelligent FAN adjustment and real-time power consumption monitoring technology are provided for the cost of maintenance redundancy and help to build a green and energy saving networks.

### Customized Profile for Different Deployment Scenarios

The Flexible Table Management (FTM) technology offers multiple table size configuration profiles as optimized choices for different network scenarios. Support up to 112K \* MAC address tables. Support up to 56K \* IP routing tables.

### Intelligent Ethernet OAM: completed network fault management and performance guaranty

With the IEEE802.1ag and ITU-T Y.1731 end-to-end OAM, Ethernet service providers can monitor the services, survey the end-to end performance and ensure the service quality match the agreement.

- The fault management technique includes CCM, LTM and LBM. Performance targets include measure for latency and jitter.
- S5600 Series routing switches Support remote management, network monitoring, network fault indication, remote loopback and MIB parameter retrieval according to the standard 802.3ah EFM.

### Data Center Features

S5600 Series routing switches supports leading edge Data Center features: Priority Flow Control (PFC), explicit Congestion Notification (ECN) and Data Center TCP, etc.

- Support MLAG (Multi-Chassis Link Aggregation) to aggregate links across different devices. MLAG can build an Active-Active system to improve the reliability of the network links from single board grade to device grade. MLAG use a peer link between to devices to aggregate two devices and make them as one device logically. Ports of two different devices join the aggregate ports together and all port can transmit the data traffic. MLAG need to management the device respectively, but the configurations are easier than stacking, reboot is NOT required after MLAG is configured. Forwarding and configuring are processing on local device, in normal condition the traffic do NOT transmit trough the peer link, the bandwidth of peer link is not the bottleneck of the network and the latency is low.
- Support overlay technology (include NVGRE/VXLAN/GENEVE etc.). Overlay can make layer2 packets across the layer3 networks by using NVGRE/VXLAN/GENEVE header to encapsulate the entire Ethernet packets. Overlay resolves the problem of MAC table size limitation in traditional layer2 networks, resolves the problem of VLAN id count limitation, and resolves the problem network dynamic adjustment which cannot achieve by VLAN/VPN. Use VXLAN for example, 24 bits VNI identifier can support at most 16777215 logic networks, layer2 networks built by VXLAN can keep the same IP/MAC etc. when move the virtue machine.
- MLAG and overlay features are also good candidates for switches in data center network.
- S5600 Series routing switches supports RPC-API for SDN (Software Defined Network). SDN is a new architecture of network which can substantially simplify the management and maintenance by separating the control plane and data plane of the network.

### High Reliability

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S5600 is powered by Hot-swappable power modules which supports AC/DC 1+1 redundancy; Fans support 1+1 redundancy; Support Real-time environment monitoring technology to detect the chipset temperature, status of fan and power, etc.

- Support LACP / ECMP / VRRP / VARP / STP/RSTP/MSTP / Smart Link / BFD / ERPS / G.8031 / G.8032 / Load-Balancing, etc. to protect the network traffic all-around effectively.
- Patented technology “Sysmon” for CPU status monitoring can take action when system is error.

### Outstanding QoS Control

S5600 Series routing switches provides 13 hardware queues per-port (8 unicast queues, 4 multicast queues, and 1 monitor queue).Support multi-stage scheduling technology such as WDRR (Weighted Deficit Round Robin) / SP (Strict Priority) and TD (Tail Drop) / WRED (Weighted Random Early Detection) to prevent congestion. Support flexible queue scheduling mechanism to do the shaping for queue or port traffic.

- Ingress and egress policer provide intelligent bandwidth monitoring, which support to adjust the granularity according to the port speed. Both srTCM (Single Rate Three Color Marker) and trTCM (Two Rate Three Color Marker) can be supported.

### Triple-play Service Support with Bandwidth Guaranty for High Quality Application

S5600 Series routing switches offers high bandwidth for Triple-Play services such as IPTV, video monitoring. The built-in QoS capabilities and flexible queuing technologies guarantee high quality of services.

- Rich multicast protocol set (IGMP Snooping, IGMP v1/v2, PIM-SM) support up to 2K multicast groups and 4K logical replications per group. With FOS software, IPTV service and multicast latency control are fully supported.

### Comprehensive Network Security Policy

S5600 Series routing switches supports subscriber-class / switch-class / network-class security control.

- IPv4 / IPv6 / MAC ACL can filter IPv4 / IPv6 / Non-IP packet respectively. Besides that, extended IPv4/IPv6 ACL which can match Layer2 / layer3 / layer4 information in one rule is available. The ACLs can apply to physical ports / vlan / port group / vlan group. The members of port group or vlan group share a set of ACLs and save the TCAM resource.
- ARP Inspection and IP Source Guard features prevent network from malicious ARP attack. Support CPU Traffic Protection, Storm control and CPU load optimization features. Support centralized 802.1x authentication feature to forbidden illegal user accessing network.

### Convenient Management features

- Support varied management interfaces, include console port / inband network ports / outband network port. Support SNMP v1/v2/v3, Support CLI (Command Line Interface), web management, Telnet and FTP connection. Support OAM to make management more convenient, and support SSH2.0, SSL, etc. to ensure security of management.

## CHARACTERISTICS

Product Name	S5612X-16G8N2Q-SI	S5612X-16G8N2Q-EI
Ethernet Ports	- 8*100/1000 BASE-T - 8*1G SFP - 12 * 10G SFP+ - 2*40Gb QSFP28 - 8*25G SFP28	
Power Supplies	1*150W Non pluggable Power Supply	2*350W (1+1 Redundancy) Hot-swappable Power Supplies
Management Ports	1*Console Port (RJ45) 1* Ethernet Management Port (RJ45) 1* USB Port	
Fans	4*Non Pluggable Fans	2*Hot-swappable Fan Module (2 Fans Peer Module)
Airflow	Front-to-Rear	
Flash Memory	8GB EMMC (OS) 4MB SPI Flash (Boot)	
DRAM	2GB	
Switching Capacity	800Gbps	
MAC address	98304	
Size	442mm*290mm*43.6mm	442mm*379mm*43.6mm
Weight	5kg	6.96kg (Include 2 Power Modules)
Operating Temperature	0°C to 45°C	
Storage Temperature	-40°C to 70°C	
Operating Humidity	10% to 90% (Non-condensing)	
Storage Humidity	0 to 95% (Non-condensing)	
Temperature Alarm	50°C	

## SOFTWARE FEATURE LIST

Tips : ● Support ○ Unsupport

Type	Feature	Description	license		
			EB	MS	MA
Ethernet	interface	Ethernet interface operating modes(full duplex, half duplex, and auto-negotiation)	●	●	●
		Ethernet interface operating rates	●	●	●
		Jumbo Frame	●	●	●
		port-xconnect	●	●	●
	Flow-control	Flow-control tx/rx	●	●	●
	storm-control	Port based storm-control	●	●	●
	Port-block	Port-block(know-unicast/unknow-unicast/know-multicast/unknow-multicast/broadcast)	●	●	●
	Port-isolate	L2/L3/All Port-isolate	●	●	●
		Uni-direction isolate	●	●	●
	L2 Protocol Tunnel	L2 Protocol Tunnel(support CDP/CFM/DOT1X/LLDP/SLOW-PROTOS/TP/VTP)	●	●	●
	Forward mode	Store-and-forward	●	●	●
Cut-through		●	●	●	
VLAN	VLAN Access mode	Access/Trunk	●	●	●
		Default VLAN	●	●	●
	VLAN Classification	VLAN Classification(port based/mac based/ip based/protocol based)	●	●	●
	QinQ	Basic QinQ	●	●	●
		Selective QinQ	●	●	●
		VLAN Mapping ( 1:1 VLAN Translation )	●	●	●
	VLAN Statistics	VLAN Statistics	●	●	●

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Type	Feature	Description	license		
			EB	MS	MA
	Private VLAN	Private VLAN	•	•	•
	Voice VLAN	Voice VLAN	•	•	•
	Guest VLAN	Guest VLAN	•	•	•
MAC	MAC Address Table	Automatic learning and aging of MAC addresses	•	•	•
		Hardware Learning	•	•	•
		Static and dynamic MAC address entries	•	•	•
		blackhole MAC	•	•	•
	MAC Flapping detect	MAC Flapping detect	•	•	•
	Port Bridge	Port Bridge	•	•	•
LAG	Link aggregation	Static-LAG & LACP	•	•	•
		LAG load balance (SLB)	•	•	•
		LAG load balance (DLB)	•	•	•
		LAG load balance (RR)	•	•	•
		LAG Self-healing	•	•	•
xSTP	STP	Spanning-Tree Protocol	•	•	•
	RSTP	Rapid Spanning-Tree Protocol	•	•	•
	MSTP	Multi-instance Spanning-Tree Protocol	•	•	•
	Spanning-Tree Protocol Protection	BPDU Filter/Guard	•	•	•
		Root Guard	•	•	•
		Loop Guard	•	•	•
		Anti TC-BPDU attack	•	•	•
ERPS	ERPS	Single ERPS ring	•	•	•
		tangent ERPS rings	•	•	•
		intersecting ERPS rings	•	•	•
		compatible with RRPP	•	•	•

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Type	Feature	Description	license		
			EB	MS	MA
G.8031	G.8031	G.8031 (Ethernet Linear Network Protection)	●	●	●
G.8032	G.8032	G.8032 V1 & V2	●	●	●
		Single Ring	●	●	●
		Sub Ring	●	●	●
Loopback Detect	Loopback Detect	Loopback-detection	●	●	●
Layer2 Multicast	IGMP Snooping	IGMPv1/v2/v3 Snooping	●	●	●
		Fast leave	●	●	●
		Static IGMP snooping group	●	●	●
	MVR	MVR (Multicast VLAN Registration)	●	●	●
ARP	ARP	Static and dynamic ARP entries	●	●	●
		Aging of ARP entries	●	●	●
		Gratuitous ARP	●	●	●
	ARP proxy	basic ARP-Proxy	●	●	●
		local ARP-Proxy	●	●	●
IPv4 Unicast Routing	IPv4 Static Routes	IPv4 Static Routes	●	●	●
		blackhole Routes	●	●	●
		co-work with IP SLA	●	●	●
		VRF (Virtual Routing and Forwarding)	●	●	●
		uRPF check	●	●	●
	RIP	RIPv1/v2	●	●	●
	OSPFv2	OSPFv2	○	●	●
	IS-IS	IS-IS	○	●	●
	BGP	IBGP	○	●	●
		EBGP	○	●	●
	Route policy	Route-map	●	●	●
		IPv4 prefix-list	●	●	●

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Type	Feature	Description	license		
			EB	MS	MA
	PBR	PBR ( Policy-based Routing )	●	●	●
	ICMP	ICMP redirect	●	●	●
		ICMP unreachable	●	●	●
	ECMP	ECMP(SLB)	●	●	●
		ECMP(DLB)	●	●	●
		ECMP(RR)	●	●	●
		ECMP Self-healing	●	●	●
IPv4 Multicast Routing	IGMP	IGMPv1/v2/v3	●	●	●
		IGMP-Proxy	●	●	●
		IGMP SSM Mapping	●	●	●
	PIM	PIM-SM	○	●	●
		PIM-SSM	○	●	●
		PIM-DM	○	●	●
IPv6 Basic Protocol	ICMPv6	ICMPv6	○	●	●
	NDP	NDP	○	●	●
	PMTU	PMTU	○	●	●
IPv6 Unicast Routing	IPv6 Static Routes	IPv6 Static Routes	○	●	●
	RIPng	RIPng	○	●	●
	OSPFv3	OSPFv3	○	●	●
IPv6 Multicast Routing	MLD v1/v2	MLD v1/v2	○	●	●
	MLD v1/v2 Snooping	MLD v1/v2 Snooping	○	●	●
	MVR6	MVR6	○	●	●
	PIM-SM v6	PIM-SM v6	○	●	●
IP Tunnel	IPv6 over IPv4 Tunnel	IPv6 over IPv4 Tunnel	○	●	●
	6to4 Tunnel	6to4 Tunnel	○	●	●



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Type	Feature	Description	license		
			EB	MS	MA
	ISATAP Tunnel	ISATAP Tunnel	○	●	●
IPv6 Service	DHCPv6	DHCPv6 Relay	○	●	●
		DHCPv6 Snooping	○	●	●
	IPv6 Prefix List	IPv6 Prefix-list	○	●	●
BFD	BFD	BFD for Static route	○	●	●
		BFD for OSPFv2	○	●	●
		BFD for VRRP/Track	○	●	●
		BFD for PBR	○	●	●
VRRP	VRRP	VRRP	●	●	●
		Track for VRRP	●	●	●
Smart Link	Smart Link	multi-instance	●	●	●
		load balance	●	●	●
		Multi-Link	●	●	●
		Monitor-link	●	●	●
MLAG	MLAG	MLAG basic	●	●	●
		MLAG orphan Port	●	●	●
EFM	EFM (802.3ah)	Auto detection	○	●	●
		Network fault detetion	○	●	●
		Network fault handle	○	●	●
		remote loopback	○	●	●
CFM	CFM (802.1ag)	Hardware CCM detect	○	●	●
		MAC Ping	○	●	●
		MAC Trace	○	●	●
Y.1731	Y.1731	Latency and jitter measure	○	●	●
PoE	System Power management	Power supply on-spot detection	●	●	●
		Power supply capability detection	●	●	●
		Power capability auto configuration (PSE)	●	●	●

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Type	Feature	Description	license		
			EB	MS	MA
	Power Supply Management	Legacy PD detection	•	•	•
		PD max power management	•	•	•
		PD priority management	•	•	•
		Power Supply Task Plan management	•	•	•
		PD Mandatory power supply	•	•	•
	operations management	PSE log	•	•	•
		PSE Chipset temperature inquire	•	•	•
		PSE firmware update	•	•	•
QoS	Traffic classification	Traffic classification based on COS/DSCP (simple classification)	•	•	•
		Traffic classification based on ACL ( complex classification)	•	•	•
		Traffic classification based on inner header of the tunnel packets	•	•	•
	Traffic behaviors	Queue scheduling	•	•	•
		Remark the priority fields(COS/DSCP) of the packet based on ACL	•	•	•
		Remark the priority fields(COS/DSCP) of the packet based on Table Map	•	•	•
		Flow redirection	•	•	•
		Flow mirror	•	•	•
	Traffic policing	Traffic policing based on direction(in/out) of Port	•	•	•
		Traffic policing based on direction(in/out) of VLAN	•	•	•
		Traffic policing based on direction(in/out) of flow	•	•	•
		Traffic policing based on	•	•	•

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Type	Feature	Description	license			
			EB	MS	MA	
		direction(in/out) of aggregated flow				
	Traffic shaping	Queue based traffic shaping	•	•	•	
		Port based traffic shaping	•	•	•	
	Congestion management	SP (Strict Priority) scheduling	•	•	•	
		WDRR (Weighted Deficit Round Robin) scheduling	•	•	•	
		SP + WDRR mixed scheduling	•	•	•	
	Congestion avoidance	TD (Tail Drop)	•	•	•	
		WRED (Weighted Random Early Detection)	•	•	•	
	Traffic statistics	Packet counts and bytes statistics based on traffic classification	•	•	•	
		Packet counts and bytes statistics based on the color after traffic policing	•	•	•	
		Forwarded and discarded packet counts and bytes statistics	•	•	•	
	ECN (Explicit congestion notification)	ECN tags based on Tail Drop	•	•	•	
		ECN tags based on WRED	•	•	•	
	VARP	Virtual gateway	VARP (Virtual-ARP)	•	•	•
			VARP subnet	•	•	•
	Tunnel	VxLAN	Manual configure VxLAN tunnel	•	•	•
VxLAN distributed gateway			•	•	•	
VxLAN active-active access			•	•	•	
Interconnect across Datacenters based on VxLAN			•	•	•	
L2 Protocol packet passthrough			•	•	•	
Edit DSCP in VxLan outer header			•	•	•	

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Type	Feature	Description	license		
			EB	MS	MA
		BGP EVPN	○	○	●
		Support to enable/disable overlay split horizon per-VNI	●	●	●
	GRE Tunnel	GRE Tunnel	●	●	●
	NVGRE Tunnel	NVGRE Tunnel	●	●	●
	GENEVE Tunnel	GENEVE Tunnel	●	●	●
DCB	DCBX	LLDP support DCBX TLV	●	●	●
	PFC	PFC	●	●	●
IPRAN	LDP	LDP	○	○	●
	MPLS Forwarding	MPLS Forwarding	○	○	●
	VPWS	VPWS	○	○	●
	VPLS	VPLS	○	○	●
	MPLS OAM	MPLS OAM	○	○	●
	MPLS Stats	MPLS Stats	○	○	●
	L3VPN	L3VPN	○	○	●
	ACL	MPLS ACL	○	○	●
	QoS	MPLS QoS	○	○	●
System Security	SSH	SSHv1/v2	●	●	●
		RSA Key generation	●	●	●
	RADIUS	RADIUS	●	●	●
	TACAS+	TACAS+	●	●	●
	AAA	Authentication	●	●	●
		Authorization	●	●	●
		Accounting	●	●	●
	Dot1x	Port based dot1x	●	●	●
		MAC based dot1x	●	●	●
		Guest VLAN	●	●	●

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Type	Feature	Description	license		
			EB	MS	MA
	ACL	MAC/IP ACL	•	•	•
		Basic Mode ACL	•	•	•
		Port-group ACL	•	•	•
		VLAN-group ACL	•	•	•
		IPv6 ACL	•	•	•
		ACL UDF	•	•	•
		Time Range	•	•	•
	ARP Inspection	ARP Inspection	•	•	•
	IP Source Guard	IP Source Guard	•	•	•
	Port Security	Limitation on MAC address learning on interface	•	•	•
	VLAN Security	Limitation on MAC address learning on VLAN	•	•	•
	Control Plane Policy (COPP)	Black list/wihte list	•	•	•
		Rate limit	•	•	•
	CPU Traffic Limit	CPU Traffic Limit	•	•	•
	Prevent DDOS attack	Prevent DDOS attack (ICMP Flood/Smurf/Fraggle/LAND/SYN Flood)	•	•	•
	Login filter	Telnet/SSH ACL filtering	•	•	•
		Telnet/SSH IPv6 ACL filtering	•	•	•
MAC Security	MacSec(802.1AE)	•	•	•	
Link-Flapping detection	Link-Flapping detection	•	•	•	
Network Management	DHCP	DHCP Server	•	•	•
		DHCP Relay	•	•	•
		DHCP Snooping	•	•	•
		DHCP Client	•	•	•
		DHCP Option82	•	•	•

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Type	Feature	Description	license		
			EB	MS	MA
		DHCP Option252	•	•	•
	RMON	RMON	•	•	•
	sFlow	sFlow v4/v5	•	•	•
	IP SLA	IP SLA	•	•	•
	Latency/Buffer Monitor	Latency Monitor	•	•	•
		Buffer Monitor	•	•	•
	EFD	Elephant Flow Detection	•	•	•
	NTP	NTP ( Network Time Protocol )	•	•	•
	Errdisable	Errdisable detection and recovery	•	•	•
	DNS	Static DNS Client	•	•	•
	LLDP	LLDP	•	•	•
Terminal Services	Command Line Interface	Configurations through CLI (Command Line Interface)	•	•	•
	Help information	Banner configuration	•	•	•
		Help information in English	•	•	•
	Terminal service	Vty Terminal service	•	•	•
Console Terminal service		•	•	•	
Configuration Management	Management interface	Inband management interface and configuration	•	•	•
		Outband management interface and configuration	•	•	•
	User privilege management	privileged user priority and privileged commands	•	•	•
	SNMP	Network management based on SNMPv1/v2c/v3	•	•	•
		Public and private MIB	•	•	•
		Public and private Trap	•	•	•
	WEB	Configuration and management based	•	•	•

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Type	Feature	Description	license		
			EB	MS	MA
		on WEB UI			
	RPC-API	Configuration and management based on RPC-API	•	•	•
	SmartConfig	SmartConfig (Automatically configuration when system start)	•	•	•
	OVSDB	Configuration and management based on OVSDB	•	•	•
	system profile configuration	change the system specifications by choose different STM Profiles	•	•	•
	License control	Feature configuration based on License	•	•	•
	Restore factory default configuration	Restore factory default configuration	•	•	•
File System	File system	File system(support directory and file management)	•	•	•
	Upload and download	Upload and download files through FTP or TFTP	•	•	•
		Upload and download files through Xmodem	•	•	•
Debugging And Maintenance	Debug	per-module Debug features	•	•	•
		ICMP Debug	•	•	•
	BHM	Software process monitor: BHM (Beat Heart Monitor)	•	•	•
		Hardware Watch Dog	•	•	•
	Log & alarm	CPU usage display and alarm	•	•	•
		Memory usage display and alarm	•	•	•
		Device temperature、PSU、FAN、status display and alarm	•	•	•

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Type	Feature	Description	license		
			EB	MS	MA
		User operation logs	•	•	•
		Management of logs, alarms, and debugging information	•	•	•
	VCT	VCT (Virtual Cable Test)	•	•	•
	system diagnostics	Detailed Diagnostic-information collection	•	•	•
	Reboot	Manual reboot	•	•	•
		Schedule Reboot	•	•	•
		Reboot Information logging	•	•	•
	network diagnostics	Ping	•	•	•
		IPv6 Ping	•	•	•
		Traceroute	•	•	•
	mirror	Port mirror	•	•	•
		Flow mirror	•	•	•
		Remote mirror	•	•	•
		Multi-destination mirror (m:n)	•	•	•
		Use CPU as mirror source	•	•	•
		Use CPU as mirror destination and analyze packet	•	•	•
		ERSPAN	•	•	•
	CPU statistics	To CPU/From CPU packets statistics	•	•	•
	L2 Ping	layer2 network connectivity detection - L2Ping (MAC Ping/Trace)	•	•	•
	UDLD	UDLD (Unidirectional Link Detection)	•	•	•
	unidirectional	unidirectional forwarding of the fiber	•	•	•
	Loopback	port loopback	•	•	•
		hardware loopback (internal/external)	•	•	•
	System time	Time configuration	•	•	•



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Type	Feature	Description	license		
			EB	MS	MA
		Timezone	●	●	●
Version Upgrade	system software upgrade	upgrade with the local image file	●	●	●
		upgrade with the remote TFTP server	●	●	●
	Uboot upgrade	Online upgrade Uboot	●	●	●

**ACCESSORIES**

<b>Product Name</b>	<b>Quantity</b>
Console Cable	1PCS
Power Cords	2PCS
Rack Mount Brackets(Front)	2PCS
Rack Mount Brackets(Rear)	2 PCS
Sliding Rail	2 PCS
Bracket Screws	10PCS
Cat5e Cable	1PCS
Grounding Cable	1PCS
User Manual	1PCS