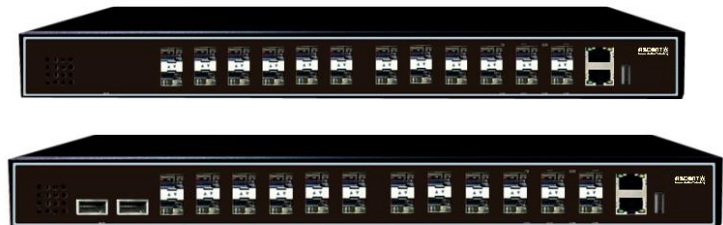


## 10GE Security Routing Switch

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### AS3600 Series



- Core network and Enterprise zone
- 24 × 10GE SFP+
- 2 × 40GE QSFP (2Q)
- 480 (0Q) / 640 (2Q) Gbps backplane capacity
- 360 (0Q) / 480 (2Q) Mpps throughput
- 3 × hot-swapped fans
- 1+1 power redundancy
- Full loaded ≤ 120W
- CLI, Console, Telnet, Web, SNMP v1/2/3

AS3600 Series are full 10GE multi-service security routing Ethernet switches featuring advanced hardware design with hot-swapped power redundancy. It can support up to 24 × 10GE SFP+ ports and 2 × 40G QSFP ports. Advanced non-blocking array exchange and a large packet cache allow for smooth operation even in extreme circumstances.

AS3600 series offers robust switching and routing capabilities and seamless cooperation with other ACT routing and switching products. Offering high performance and high security, AS3600 is suitable for the IP MAN convergence layer, large-scale enterprise zones, and the core of the network layer.

## Highlights

- High-performance security routing switching with IPv4/IPv6 support
- 480 (0Q) / 640 (2Q) Gbps backplane capacity
- Throughput up to 360 (0Q) / 480 (2Q) Mpps
- Supports up to 24 × 10GE SFP+ uplinks and 2 × 40GE QSFP (2Q)
- 3 × hot-swapped fans
- 1+1 redundancy dual power supply
- Advanced routing and switching features
- Lower power consumption to save on maintenance and service costs

## Specifications

Item	AS3624S-0Q-AC2	AS3624S-2Q-AC2
Backplane Capacity	480 Gbps	640 Gbps
Switching Capacity	480 Gbps	512 Gbps
Throughput (IPv4/IPv6)	360 Mpps	480 Mpps
Memory and Storage	512 MB DDR2 SDRAM Memory and 16 MB Flash Memory	
Redundancy Design	1+1 hot-swap redundant power	
Power Supply	AC: Input 100~240V, 50~60Hz DC: Input -36V~-72V	
Power Consumption	Full load ≤ 120W	Full load ≤ 130W
Outline Dimensions (W×D×H)	437 mm × 360 mm × 44 mm	
Weight (in maximum configuration)	≤8 kg	≤8.5 kg
Environmental Requirements	Working temperature: 0 ~ 55°C Storage temperature: -20 ~ 70°C Relative humidity: 10 ~ 90% (non-condensing) Electromagnetic compatibility	

## Features

Item	ACT AS3600 Series
L2 Features	MAC
	128K MAC address
	MAC Black Hole
	Port MAC limit
	Source MAC filtration

<b>Security Features</b>	<b>VLAN</b>	4K VLAN entries Port-based/MAC-based/IP subnet-based VLAN Port-based QinQ and selective QinQ (StackVLAN) 1:1 and N:1 VLAN VLAN Swap and VLAN Remark PVLAN to realize port isolation and saving public-VLAN resources GVRP
	<b>Spanning Tree Protocol</b>	IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol instances (MSTP) Remote loop detection BPDU protection Root protection RRPP ring topology RRPP instance
	<b>Port</b>	Bi-directional bandwidth control Static link aggregation and LACP (Link Aggregation Control Protocol) Port mirroring and traffic mirroring
	<b>User Security</b>	Anti-ARP-spoofing Anti-ARP-flooding IP Source Guard created IP + VLAN + MAC + port binding Port Isolation MAC address binds to port and port MAC address filtration IEEE 802.1x and AAA/RADIUS authentication
	<b>Device Security</b>	Anti-DOS attack (such as ARP, Synflood, Smurf, ICMP attack), ARP detection, worm and Msblaster worm attack SSHv2 Secure Shell SNMP v3 encrypted management Security IP login through Telnet Hierarchical management and password protection of users
	<b>Network Security</b>	User-based MAC and ARP traffic examination Restrict ARP traffic of each user and force-out users with abnormal ARP traffic Dynamic ARP table-based binding IP + VLAN + MAC + port binding L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of user defined packet Port-based broadcast/multicast suppression and auto-shutdown risk port URPF to prevent IP address counterfeiting and attack DHCP Option82 and PPPoE+ upload user's physical location Plaintext authentication of OSPF, RIPv2 and BGPv4 packets and MD5 cryptograph authentication
	<b>IP Routing</b>	
	<b>IPv4</b>	ARP Proxy DHCP Relay

		DHCP Server Static route RIPv1/v2 OSPFv2 BGP4 ECMP Strategy route Route policy MLD snooping IPv6 telnet DHCPv6 snooping IPv6 ACL IPv6 web management OSPFv2/v3 RIPv1/v2 PIM-DM/PIM-SM/PIM-SSM IGMP/IGMP-proxy BGP4 MLD/MLD-proxy LDP/MPLS DHCPv6 relay/server/client ISIS-4 Static route VRRP mail-alarm syslog PPPoE+ URPF SNTP ping/ping6
	<b>IPv6</b>	
<b>Service Features</b>	<b>ACL</b>	Standard and extended ACL Time Range ACL Rate-limit on sending and receiving packet on port Packet redirection Port-based flow-control Two-speed three-color CAR Packet filter providing filtering based on source/destination MAC address, source/destination IP address, port, protocol, VLAN, VLAN range, MAC address range, or invalid frame Packet filtration of L2 ~ L7 even deep to 80 bytes of IP packet head
	<b>QoS</b>	Rate-limit to packet sending/receiving speed of port or self-defined flow and provide general flow monitor and two-speed tri-color monitor of self-defined flow

		<p>Priority remark to port or self-defined flow and provides 802.1P, DSCP priority and remark</p> <p>CAR (Committed Access Rate), traffic shaping and flow statistics</p> <p>Packet mirror and redirection of interface and self-defined flow</p> <p>Super queue scheduler based on port and self-defined flow. Each port/ flow supports 8 priority queues and scheduler of SP, WRR and SP+WRR.</p> <p>Congestion avoid mechanism, including Tail-Drop and WRED</p>
	<b>Multicast</b>	<p>IGMPv1/v2/v3</p> <p>IGMPv1/v2/v3 snooping</p> <p>IGMP filter</p> <p>MVR and cross VLAN multicast copy</p> <p>IGMP fast leave</p> <p>IGMP proxy</p> <p>PIM-SM/PIM-DM/PIM-SSM</p> <p>PIM-SMv6, PIM-DMv6, PIM-SSMv6</p> <p>MLDv2/MLDv2 Snooping</p> <p>MSDP</p>
<b>Reliability</b>	<b>Loop Protection</b>	EAPS and GERP (recover-time <50ms)
	<b>Link Protection</b>	<p>Loopback-detection</p> <p>FlexLink (recover-time &lt;50ms)</p> <p>RSTP/MSTP (recover-time &lt;1s)</p> <p>LACP (recover-time &lt;10ms)</p> <p>BFD</p>
	<b>Device Protection</b>	<p>VRRP host backup</p> <p>Double fault-tolerant backup of host program and configuration file</p> <p>1+1 power hot backup</p>
<b>Maintenance</b>	<b>Network Maintenance</b>	<p>Telnet-based statistics</p> <p>RFC3176 sFlow</p> <p>LLDP</p> <p>802.3ah Ethernet OAM</p> <p>RFC 3164 BSD syslog Protocol</p> <p>Ping and Traceroute</p>
	<b>Device Management</b>	<p>Command-line interface (CLI), Console, Telnet and WEB configuration</p> <p>System configuration with SNMPv1/v2/v3</p> <p>RMON (Remote Monitoring) 1/2/3/9 groups of MIB</p> <p>NTP (Network Time Protocol)</p> <p>GN.Link II Server</p> <p>NGBNView network management</p> <p>WEB-based network management</p> <p>Ping and traceroute</p>

## Ordering Information

Item	Description
AS3624S-0Q-AC2	AS3600 series 10G full fiber routing switch with 24 × 10G optical ports, Dual AC PS
AS3624S-2Q-AC2	AS3600 series 10G full fiber routing switch with 24 × 10G optical ports, 2 × 40G ports, Dual AC PS

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Specifications and product availability are subject to change without notice.

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Ver. ACT\_AS3600\_DataSheet\_V1b\_May\_2015