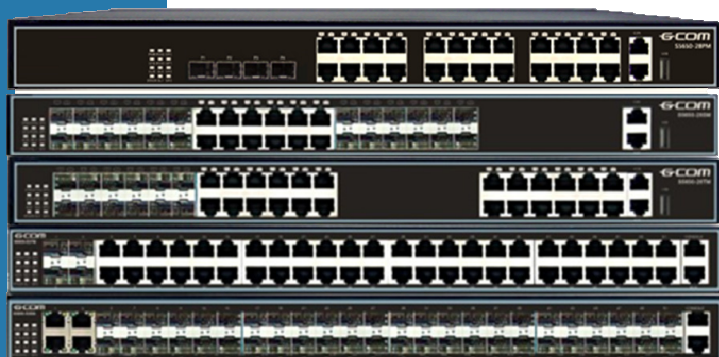




Security Routing Switch



Product Overview

- S5650 Series are 10GE Security Routing Ethernet Switch with High-Performance, High-Security and Multi-Service.
- Advanced non-blocking array exchange and huge packet cache support smooth operation at the extreme circumstance. It is

for IP MAN Convergence Layer and Large-Scale Enterprise Zone or the Core of the Network Layer.

Product Highlight

 S5650-28TM	• 128Gbps Backplane • 95.2Mpps Throughput • 12 x 10/100/1000Base-T RJ-45 Port • 12 x 1000Base-X SFP Combo Port • 2 x 10G Module Slot • 1+1 Redundant Power Supply • Stackable
 S5650-28SM	• 128Gbps Backplane • 95.2Mpps Throughput • 12 x 1000Base-X SFP Port • 12 x 1000Base-X SFP Combo Port • 2 x 10G Module Slot • 1+1 Redundant Power Supply • Stackable
 S5650-28PM	• 128Gbps Backplane • 95.2Mpps Throughput • 24 x 10/100/1000Base-T RJ-45 PoE+ Port • 4 x 1000Base-X SFP Combo Port • 2 x 10G Module Slot • 1+1 Redundant Power Supply • Stackable • Support IEEE 802.3af and 802.3at • Max Power Supply for Single Port is 30W
 S5650-52TM	• 256Gbps Backplane • 130.9Mpps Throughput • 44 x 10/100/1000Base-T RJ-45 Port • 4 x 1000Base-X SFP Combo Port • 2 x 10G Module Slot • 1+1 Redundant Power Supply • Stackable
 S5650-52SM	• 256Gbps Backplane • 130.9Mpps Throughput • 44 x 10/100/1000Base-X SFP Port • 4 x 1000Base-X SFP Combo Port • 2 x 10G Module Slot • 1+1 Redundant Power Supply • Stackable



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Product Specifications

Model	S5650-28TM	S5650-52TM	S5650-28SM	S5650-52SM	S5650-28PM
Backplane Capacity	128Gbps		256Gbps		128Gbps
Switching Capacity	128Gbps		256Gbps		128Gbps
Forwarding Rate	95.2Mpps		130.9Mpps		95.2Mpps
10/100/1000Base-T RJ-45 Port	12	44	-	-	24 PoE+
1000Base-X SFP Port	-	-	12	44	-
Gigabit Combo Port (RJ45/SFP)	12	4	12	4	4
10G XFP Slot	2	2	2	2	2
SDRAM Memory	256MB DDR2				
Flash Memory	8MB Flash				
Power Supply	1+1 Hot-Swappable Redundant Power Supply Module AC : Input 90~260V, 50~60Hz • DC : Input -36V ~ -72V (Single PDU can Supply 360W PoE Power)				
Power Consumption	Full-loaded ≤40W Idle ≤15W	Full-loaded ≤50W Idle ≤15W	Full-loaded ≤60W Idle ≤30W	Full-loaded ≤70W Idle ≤30W	Full-loaded ≤40W Idle ≤15W
Dimensions	(W)440mm × (D)380mm × (H)44mm				
Weight (Full-loaded)	≤6kg	≤6.5kg	≤6kg	≤6.5kg	≤6kg
Environmental Requirements	Operating Temperature : -15°C ~ 55°C Storage Temperature : -40°C ~ 70°C Relative Humidity : 10% ~ 90%, Non-Condensing				



Security Routing Switch

Product Features

L2 Features	MAC	16K MAC Address • MAC Black Hole • Port MAC Limit
	VLAN	4K VLAN Entries • Port-based/MAC-based/IP Subnet-based VLAN • Port-based Q-in-Q and Selective Q-in-Q (StackVLAN) • VLAN Swap and VLAN Remark • PVLAN to Realize port isolation and saving Public-VLAN Resources • GVRP
	Spanning Tree	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 Detecting
	Port	Bi-directional Bandwidth Control • Static Link Aggregation and LACP (Link Aggregation Control Protocol) • Port Mirroring and Traffic mirroring
Security Features	User's Security	Anti-ARP-Spoofing • Anti-ARP-Flooding • IP Source Guard Create IP+VLAN+MAC+Port binding Port Isolation • MAC Address binds to port and port MAC address filtration • IEEE 802.1x and AAA/Radius Authentication
	Network Security	User-based MAC and ARP Traffic Examination • Restrict ARP traffic of each user and force-out user 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 counterfeit and attack • DHCP Option82 and PPPoE+ upload user's physical location • Plaintext authentication of OSPF, RIPv2 and BGPv4 packets and MD5 cryptograph authentication
	Device Security	Anti-DOS Attack (such as ARP, SYN flood, 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
Service Features	ACL	Standard and Extended ACL • Time Range ACL • 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. System supports concurrent identification at most 50 service traffic • Packet filtration of L2 ~ L7 even deep to 80 bytes of IP packet head
	QoS	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 • Priority remark to port or self-defined flow and provide 802.1P, DSCP priority and Remark • CAR (Committed Access Rate) Traffic Shaping and flow statistics • Packet mirror and redirection of interface and self-defined flow • 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 • Congestion avoid mechanism, including Tail-Drop and WRED
	Multicast	IGMPv1/v2/v3 • IGMPv1/v2/v3 Snooping • IGMP Filter • MVR and cross VLAN multicast copy • IGMP Fast leave • IGMP Proxy • PIM-SM/PIM-DM/PIM-SSM • PIM-SMv6, PIM-DMv6, PIM-SSMv6 • MLDv2/MLDv2 Snooping



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Product Features

IP Routing	IPv4	ARP Proxy • DHCP Relay • DHCP Server • Static Route • RIP v1/v2 • OSPF v2 • BGPv4 • ECMP • Strategy Route • Route Policy
	IPv6	ICMPv6 • ICMPv6 Redirection • DHCP v6 • ACL v6 • OSPF v3 • RIPng • BGP4+ • Configured Tunnel • ISATAP • 6 to 4 Tunnel • IPv6 and IPv4 Tunnels
	Loop Protection	EAPS and GERP (Recover-time <50ms) Loopback-Detection
Reliability	Link Protection	FlexLink (Recover-time <50ms) • RSTP/MSTP (Recover-time <1s) LACP (Recover-time <10ms) • BFD
	Device Protection	VRRP Host Backup • Double Fault-tolerant backup of host program and configuration files • Board Card Hot Swap • S5650-24S/48S Support 1+1 Power Hot Backup
Maintenance	Network Maintenance	Telnet-based Statistics • RFC3176 sFlow • LLDP • 802.3ah Ethernet OAM • RFC 3164 BSD Syslog Protocol • Ping and Traceroute
	Device Management	Command-line Interface (CLI), Console, Telnet and WEB Configuration • System Configuration with SNMP v1/v2/v3 • RMON (Remote Monitoring) 1/2/3/9 groups of MIB • NTP (Network Time Protocol) • GN.Link Server • NGBN View Network Management • WEB-based network management • Ping and Traceroute

Order Information

Model Number	Product Description
S5650-28TM	GCom S5650-28TM, 12 x 10/100/1000Base-T, 12 x Gigabit Combo Port, 2 x 10GE Extended Slot, 1+1 Redundancy PSU, Standard 1 x AC/DC PSU
S5650-28SM	GCom S5650-28SM, 12 x 10/100/1000Base-X SFP, 12 x Gigabit Combo Port, 2 x 10GE Extended Slot, 1+1 Redundancy PSU, Standard 1 x AC/DC PSU
S5650-28PM	GCom S5650-28PM, 24 x 10/100/1000Base-T PoE+, 4 x Gigabit Combo Port, 2 x 10GE, Extended Slot, 1+1 Redundancy PSU, Standard 1 x AC/DC PSU
S5650-52TM	GCom S5650-52TM, 44 x 10/100/1000Base-T, 4 x Gigabit Combo Port, 2 x 10GE Extended Slot, Standard 1 x AC/DC PSU
S5650-52SM	GCom S5650-52SM, 44 x 10/100/1000Base-X SFP, 4 x Gigabit Combo Port, 2 x 10GE Extended Slot, Standard 1 x AC/DC PSU
SW2-10GE-1SFP	10G Interface Module, 1 x 10GE SFP+ Port
SW2-10GE-2SFP	10G Interface Module, 2 x 10GE SFP+ Port
SW1-1GE-4SFP	Interface Module, 4 x 1000Base-X SFP Port
NG01PWR100AC	S5650-28 Series AC Power Supply Unit, 100W 220V
NG01PWR180AC	S5650-52 Series AC Power Supply Unit, 180W 220V
NG01PWR100DC	S5650-28 Series DC Power Supply Unit, 100W -48V
NG01PWR180DC	S5650-52 Series DC Power Supply Unit, 180W -48V

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