



IP-COM
World Wide Wireless

G5528X-EI

L2+/L3 Lite Gigabit Ethernet Access /Aggregation Switch
with 2*10G Uplinks & 2*10G Stack Links

G5528X-EI SERIES

L2+/L3 Lite Gigabit Ethernet Access /Aggregation Switch

Products Description

The G5528XSeries switches are Gigabit Ethernet access switches with twenty-four/ forty-eight 1G downlink ports and two 10G uplink and two 10G stack link ports. The switches are ideal for Internet Service Providers (ISPs) and Multiple System Operators (MSOs) to provide home users with triple-play services with up to Gigabit bandwidth. It is also an ideal Gigabit access switch for SMB, enterprise, and campus networks. The S5500-Series switches are packed with features that bring high availability, comprehensive security, robust multicast control, and advance QoS to the network edge, while maintaining simple management.

- 24 10/100/1000Mbps RJ45 ports
- 2*10G Uplinks & 2*10G Stack Links
- L2+/L3 Lite
- Desktop/Wall-mountable

Key Feature

L2 Features

- > Tri-speed (10/100/1000BASE-T) copper interfaces
 - * Auto-negotiation for port speed and duplex mode
 - * Auto MDI/MDI-X
- > SFP+ fiber interface
 - * 1G BASE-X/10G BASE-R
- > Transceivers
 - * current/rx-power/temperature/tx-power
 - * voltage/high-low alarm and warning
 - * Digital Diagnostic Monitoring (DDM)
- > Flow Control
 - * IEEE 802.3x for full duplex mode
 - * Back-Pressure for half duplex mode
- > Jumbo frames: 9 KB
- > Broadcast/Multicast/ Unknown Unicast Storm Control
- > Link aggregation
 - * Static link aggregation
 - * 802.3ad with LACP
- > Unicast/Multicast load balance over trunk port

- > Spanning Tree Protocol
 - * IEEE 802.1D Spanning Tree Protocol (STP)
 - * IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
 - * IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
 - * BPDU Guard
 - * BPDU filtering
 - * Root Guard
 - * BPDU transparent
 - * Loopback detection

- > VLANs
 - * Supports 4K VLAN
 - * Port-based VLAN
 - * Voice VLAN
 - * IEEE 802.1Q VLAN
 - * GVRP (256 VLAN)
 - * IEEE 802.1v Protocol-based VLAN
 - * IP Subnet-based VLAN
 - * MAC-based VLAN
 - * Traffic Segmentation

Key Feature

- * QinQ
- > IGMP Snooping
 - * IGMP Proxy reporting
 - * IGMP v1/v2/v3 snooping
 - * IGMP Filtering
 - * IGMP Throttling
 - * IGMP Immediate Leave
 - * IGMP Querier
 - * IGMP mrouter-forward mode
 - * IGMP router-port-expire-time
 - * IGMP tcn-flood
 - * IGMP tcn-query-solicit
 - * IGMP unregistered-data-flood
- > MVR (Multicast VLAN Registration): Supports 5 multicast VLANs
- > Port mirroring
- > Remote port mirror (RSPAN)
- > Stacking Links
 - * L2/L3 supported
 - * VLAN membership supported
 - * trunking supported
 - * IPMC supported
- > Non-Spanning Tree Loopback detection
- > Port security
- > IP Source Guard
- > Dynamic Arp Inspection
- > ERPS
- > CFM
- > OAM
- > UDLD

L3 Features

- > Unicast Routing
 - * Static Unicast Routes
 - * RIP sv1/v2
 - * OSPF
- > Multicast Routing
 - * IGMPv1/v2
 - * IGMP v3
- > ARP
- > DHCP serververy

Key Feature

Qos Features

- > Scheduling for priority queues
 - * WRR Priority Scheduling
 - * Strict Priority Scheduling
 - * Hybrid(DRR/WRR + Strict)
 - * COS
 - * DiffServ
- > Number of Priority Queues
 - * 8 queues/port

Security

- > AAA
 - * Radius client
 - * Tacasc+ client*
- > 802.1X
 - * Local/radius Authentication
 - * Port-based Authentication
 - * Mac-based Authentication
- > HTTPS and SSL(v3)
- > SSH V2.0
- > DHCP Snooping
 - * Option 82
- > IP Source guard
- > DoS Protection

ACL

- > L2/L3/L4
- > Ingress
- > Egress
- > Statistics
- > Global ACL
- > IPv4/IPv6/MAC/ARP ACL

IPv6

- > IPv4/IPv6 Dual Protocol Stack
- > IPv6 Address Type
 - * Unicast
 - * Multicast
- > ICMPv6
- > IPv6 Neighbor Discovery

Key Feature

- > IPv6 Neighbor Discovery Snooping
- > Manual Configuration
- > IPv6 DHCP client
- > IPv6 DHCP Snooping
- > MVR over IPv6
- > SNMP over IPv6
- > HTTP over IPv6
- > SSH over IPv6
- > Telnet over IPv6

Management

- > Switch Management
 - * CLI via console port or Telnet
 - * Web management
 - * SNMP v1, v2c, v3
- > IP clustering (32 members)
- > Firmware & Configuration:
 - * Firmware upgrade via TFTP/HTTP/FTP server
 - * Dual images
 - * Multiple configuration files
 - * Configuration file upload/download via TFTP/HTTP/FTP server
 - * Firmware auto upgrade
- > RMON (groups 1, 2, 3 and 9)
- > MIB II
- > DHCP/BOOTP
 - * Client
 - * Relay
 - * DHCP dynamic provision option 66,67
- > SNTP/NTP
- > DNS client
- > Syslog
- > SMTP
- > Supports LLDP (802.1ab)
- > Ping
- > Traceroute
- > sFlow

Product Features

Performance and Scalability

The G5528XSeries switches are high-performance Gigabit Ethernet L2+/L3 Lite managed switch with 128Gbps/176Gbps switching capacity. The switch delivers wire-speed switching performance on all Gigabit ports, taking full advantage of existing high-performance Gigabit CPEs, PCs, 11n/ac Wi-Fi Applications etc, significantly improving the responsiveness of applications and file transfer times.

The 2 built-in 10G SFP+ ports provide uplink flexibility, allowing the insertion of fiber or copper, Gigabit or 10G transceivers, to create up to 10 Gbps high-speed uplinks and stack links to servers or service provider, corporate, or campus networks, reducing bottlenecks and increasing the performance of the access network.

Reliability and Energy Efficiency

The fan less design of G5500-28TX ensures noise less operation and increases the reliability of the system.

The design of the G5500-Series switches incorporate high energy efficiency in order to reduce the impact on the environment. The Green Ethernet power-saving features and fan less design significantly reduce the power consumption.

Robust Multicast Control

IGMP snooping prevents the flooding of multicast traffic by dynamically configuring switch ports so that multicast traffic is forwarded to only those ports associated with an IP multicast receiver. IGMP increases the performance of networks by reducing multicast traffic flooding.

Superior Management

An industry-standard command-line interface (CLI), accessed through the console port or Telnet, provides a familiar user interface and command set for users to manage the switch.

An embedded user-friendly web interface helps users to quickly and simply configure switches.

Continuous Availability

The IEEE 802.1w Rapid Spanning Tree Protocol provides a loop-free network and redundant links to the core network with rapid convergence, to ensure faster recovery from failed links, enhancing overall network stability and reliability.

The IEEE 802.1s Multiple Spanning Tree Protocol runs STP per VLAN base, providing Layer 2 load sharing on redundant links up to 64 instances.

Items		G5500 -28TX	G5500 -32TX	G5500 -52TX
PORT	10/100/1000M BASE -T RJ45 ports	24	N/A	48
	100/1000M BASE -X ports	N/A	20	N/A
	100/1000M Combo ports	N/A	4 (4GE/4SFP)	N/A
	10G SFP+ uplink ports	2	2	2
	10G stack link ports	2	2	2
	GE out-of-band management ports	1	1	1
	console RJ45 ports	1	1	1
	Performance	flash memory	64 MB	64 MB
DDRIII capacity		512MB	512MB	512MB
switching capacity		128Gbps	128Gbps	176Gbps
MAC address table size		16K	16K	16K
Jumbo frames		9KB	9KB	9KB
auto-negotiation		YES	YES	YES
auto-MDI/MDIX		YES	YES	YES
Power supply	input range (2 PWOER Inside)	100 -240VAC 50 -60Hz	100 -240VAC 50 -60Hz	100 -240VAC 50 -60Hz
	Max system power consumption(w)	21W	43 W	45W
Mechanical	Rack Space	19"	19"	19"
	Dimension (W x D x H) cm	44 x 28 x 4.4	44 x 28 x 4.4	44 x 33 x 4.4
Environmental	Operating Temperature	0° to 50 °C	0° to 50 °C	0° to 50 °C
	Storage Temperature	-40 ° to 70 °C	-40 ° to 70 °C	-40 ° to 70 °C

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