



## **Data Sheet GTX-5528S**

**GTX-5528S - 8\* Gigabit Ports Combo & 24\* 1000 Base-X SFP ports**  
**2\* 10G expansion slots (Maximum support 4\* 10G SFP Ports)**

**Product Appearance:**



## **Product Overview:**

GTX-5528Ss is the latest development of Gigabit Layer 2+ access switch. It's the second generation intelligent managed switches designed for networks requiring high performance, high port density, high uplink bandwidth and easy to deploy. GTX-5528Ss switch offers Gigabit connectivity with 10/100/1000 autosensing ports and 1G or 10G optical uplink.

GTX-5528S is a Layer 2+ Managed Gigabit Switches support both IPv4 and IPv6 protocols and software Layer 3 static routing capability, and provide up to 24 10/100/1000Mbps Gigabit SFP Ethernet ports, 8 Gigabit Combo Ports & 2\*10G expansion slots (Maximum support 4 \* 10G ports).

## **Highlights:**

### ■ **Various Port Types and Flexible Port Expansion**

Support 2 pieces of 10G expansion cards and each contains one or two 10G SFP+ ports. The users can flexibly adopt 1~4 10G ports expansion. .

### ■ **Excellent Processing capability**

Based on VCore-III MIPS-based CPU.

Up to 350Gbps switching capacity and 96Mpps liner filtering and forwarding speed for GTX-5528SS.

Guarantee for non-blocking flow of data while forwarding in the backbone network.

### ■ **Enhanced Reliability Protection Mechanism**

Support CPU packed classification and rate restriction by CPU protection policies, which can prevent against illegal Packet attacks to CPU and reduce the resource consumption.

Support Rapid Spanning Tree Protocol (RSTP), provide rapid convergence and improved fault-tolerant capacity. The network stable operation and load balance are well guaranteed, also improved the reasonable use network channels and redundant link.

Support Ethernet Ring Protection Switching (ERPS), can provide millisecond-level service rearrangement function, and keep the continuity of services. With the simple and reliable protocols, high-performance rearrangement function, easy-to-do maintenance and flexible topology, the users can easily manage and deploy the network.

Carrier-class switching power supply, supporting functions to prevent against lightning, overpressure and surging. The device can work normally in bad natural weather and instable voltage environment, suitable for 110~240V voltage.

### **Comprehensive Security Control Policies**

Support address authentication based on IP +MAC addresses, 802.1x authentication, radius and TACACS+ based on user interfaces, and also support IP ACL, MAC ACL, VLAN ACL and L3 / L4 based ACL, can efficiently defend against ARP attacks and viruses. Besides, the switch can provide comprehensive storm control function by suppress broadcast, multicast, DLF flooding and ICMP flooding. The comprehensive secure controls can efficiently guarantee the real-time effectiveness of all security policies.

### **■ Convenient and Quick Management and Maintenance**

Adopt simple visual Web-based interface (http / https), which helps users to handle various functions easily and conveniently.

Support Simple Network Management Protocol (SNMP) that the devices are convenient to configure and manage. Small and medium-sized enterprises customers can centralize manage the switch easily.

Support CLI command line management and telnet, suitable for professional network administrators.

Support SSH2.0 and other encryption, which makes management much more secured.

Support PDP/LLDP protocol for simpler management.

Support NTP protocol for time synchronization automatically.

Support resetting to factory defaults, which makes the maintenance more easily.

## Hardware Specification:

<b>Product Information</b>	
Product Model	<b>GTX-5528SS</b>
<b>Hardware specifications</b>	
Fixed Ports	8*10/100/1000 Base-T ports Combo 24*1000 Base-X SFP ports 2*10G expansion slots( Maximum support 4 * 10G ports)
Console	1
Reset	1
Port Switching capacity	128Gbps
Box Switching capacity	350Gbps
Forwarding Rate	96Mpps
Flash/RAM	16MB/128MB
Temperature	Operating temperature: (-10 - 50)°C Storage temperature: (-40 - 70)°C
Humidity	Operating humidity: (10% - 90%) RH, non-condensing Storage humidity: (5% - 90%) % RH, non-condensing
Dimensions(L*W*H)	440(L)*285(W)*44.5(H)mm
Power	AC:100~240VAC,50~60Hz,12V/6A
Power consumption	72W
Weight	<5 Kg
Lightning protection	6KV
MAC address table	32K
LED Indicator	Power, System, Link/Act
<b>Software specifications</b>	
Forwarding mode	Store-and-forward
Standards	IEEE 802.3i:10BASE-T Ethernet; IEEE 802.3u:100BASE-X Fast Ethernet; IEEE 802.3ab:1000BASE-T Gigabit Ethernet; IEEE 802.3z:1000BASE-X Gigabit Ethernet (Optical fiber)



	IEEE 802.3ae: 10 Gigabit Ethernet over fiber
MAC Address	32K MAC addresses
	Adding of dynamic/static MAC address
VLAN	4096 VLANs
	Port-based VLANs
	VLANs based on IEEE 802.1q
	MAC Based VLAN; Protocol Based VLAN;
Spanning Tree	STP(Spanning Tree Protocol)
	RSTP( Rapid Spanning Tree Protocol)
	MSTP(Multiple Spanning Tree Protocol)
Port Aggregation	Max 14 aggregation groups, each supports 16 ports
	Static aggregation and LACP
Port Mirroring	Many-to-one port mirroring (that is, multiple mirroring ports, and one monitor port)
Loop Protection	Loop Protection/Avoidance
Ring Protection	Industrial-level Ethernet Ring Protection Switching(ERPS)
Flow Control	Back-pressure traffic control for Half-Duplex mode
	IEEE 802.3x traffic control for Full-Duplex mode
Flow Rate Limitation	Port-based ingress or egress rate limitation
IP Routing	Static Routing
IPv6	static routing
	ICMP v6, Telnet v6
Multicast	IGMP Snooping
	MVR(Multicast VLAN Registration)
DHCP	DHCP Client
	DHCP Snooping
	DHCP Relay
	DHCP Server
Storm Suppression	Suppression of broadcast, multicast, DLF flooding and ICMP flooding
Security	IP ACL,MAC ACL,Vlan ACL,Layer2/3 ACL
	Port-Based IP+MAC Binding
	IP Source Guard
	ARP Detection
	IEEE 802.1x Radius Authentication

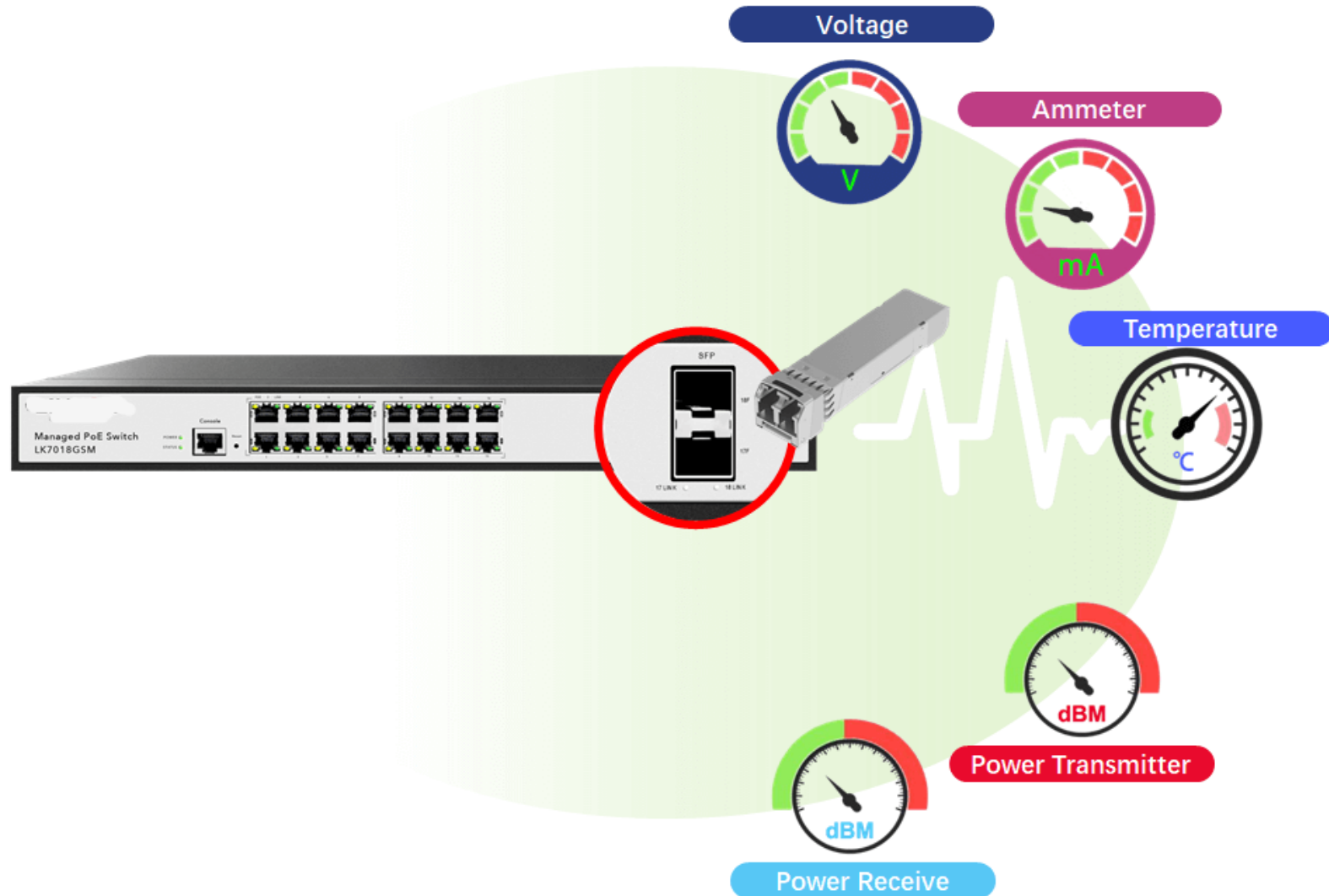
	TACACS+ Authentication
	Hierarchical Management and Password Protection
QOS	WRR (Weighted Round Robin)
	802.1p port queueing
	Cos/Tos,QOS Tag
Linear Ordering	Auto-MDIX
Negotiation	Auto-negotiation for speed and duplex mode of ports
Maintenance	Uploading or downloading of the configuration data
	Uploading Updated Package
	WEB-based reset to factory defaults
	System logs
	Ping
	Cable Detection
Management	WEB-based interface management (http/https supported)
	CLI Management (Command Line Interface)
	Telnet
	SSH 2.0
	SNMP
	LLDP, UPnP
	WEB-based interface management (http/https supported)

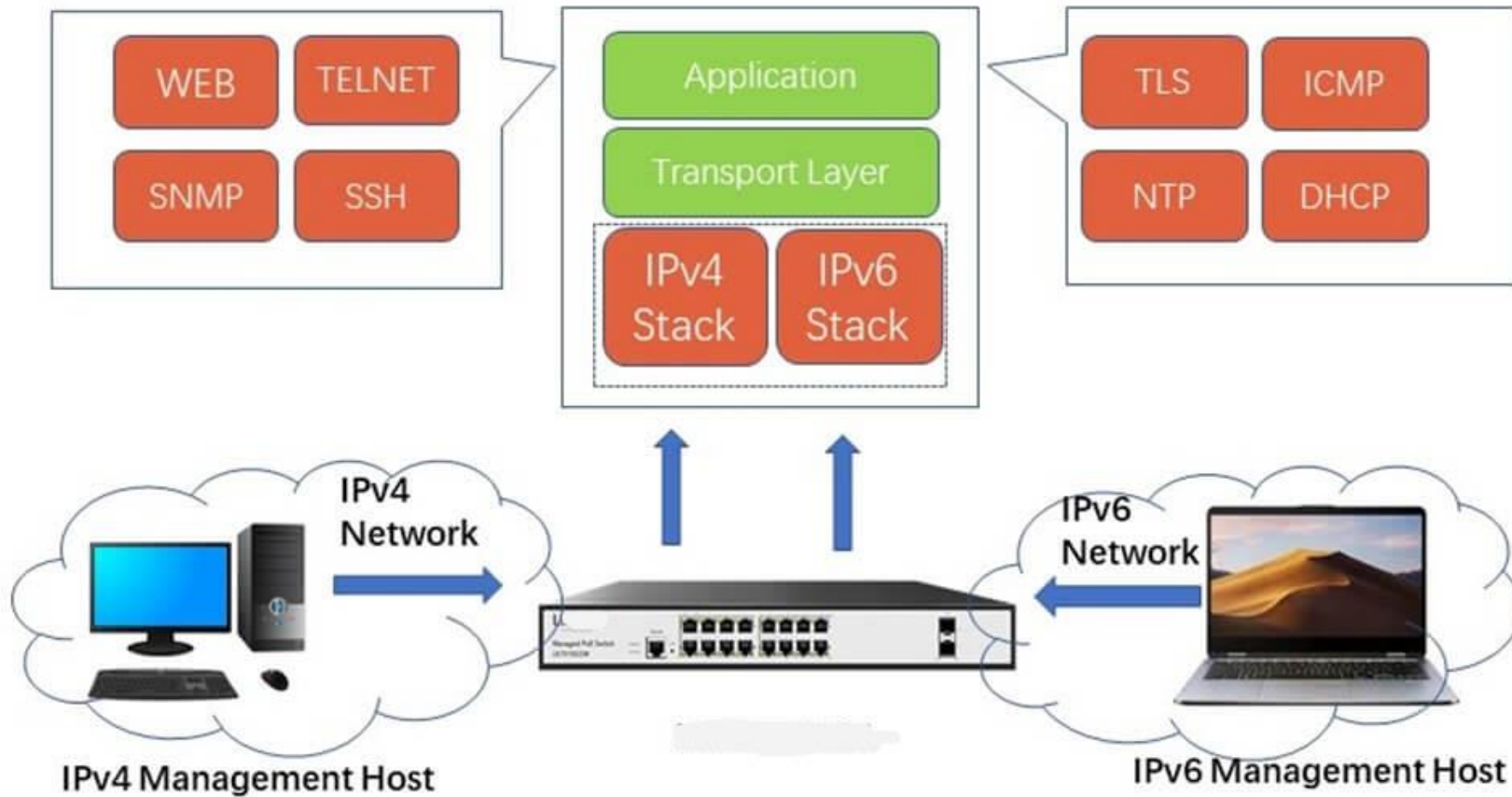
## Order Information:

Product Information	Detailed information
GTX5528S	8*10/100/1000 Base-T Combo ports, 24 *1000 Base-X SFP ports, 2*10G expansion slots( Maximum support 4 * 10G ports)
<b>Modules</b>	
2SFP+	Dual-port 10G SFP+ expansion card
<b>Transceivers</b>	
SFP+-10GE-SX-MM850	SFP+ Module(850nm,300m,LC)
SFP+-10GE-LX-SM1310	SFP+ Module(1310nm,10km,LC)
SFP-GE-SX-MM850	1000BASE-SX SFP Transceiver, Multi-Mode (850nm, 550m, LC)
SFP-GE-LX-SM1310	1000BASE-LX SFP Transceiver, Single Mode (1310nm, 20km, LC)
SFP-GE-SC-1310	SFP Gigabit optical module, TX1310/RX1550 (20km, SC)
SFP-GE-SC-1550	SFP Gigabit optical module, TX1550/RX1310 (20km, SC)
SFP-GE-T	1000BASE-T SFP



## Digital Diagnostic Monitor (DDM)





## Solution Diagram:

