

Layer 3 Multiple Gigabit with 10G SFP+ Stackable Managed Ethernet Switch



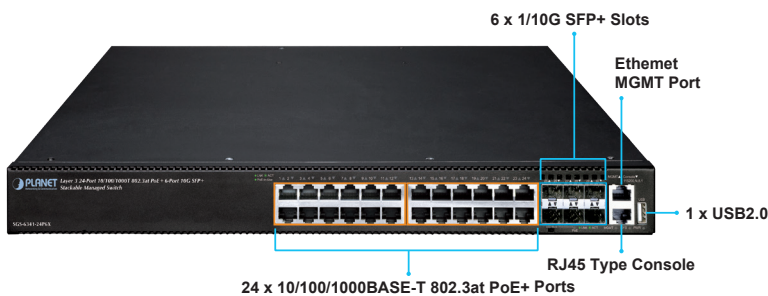
Powerful 10Gbps and Layer 3 Routing Solution for Enterprise Backbone and Data Center Networking

PLANET SGS-6341 Series Layer 3 Stackable Managed Gigabit Switch provides high-density performance, **Layer 3 static routing, RIP (Routing Information Protocol) and OSPF (Open Shortest Path First)**. With **168 to 216Gbps switching fabric**, the SGS-6341 Series can handle extremely large amounts of data in a secure topology linking to an enterprise backbone or high capacity servers. The powerful WRR (Weighted Round Robin) and Network Security features make the SGS-6341 Series perform effective data traffic control for ISP and enterprise VoIP, video streaming, and multicast applications.

The hardware specifications of these models are shown below:

Models	10/100/1000T Copper	1000/10G SFP+	PoE Ports	Power Input
SGS-6341-24P6X	24	6	24	AC
SGS-6341-24T6X	24	6	--	AC
SGS-6341-48T6X	48	6	--	AC

SGS-6341-24P6X:



SGS-6341-24T6X:



Stacking Features

- IP Stacking
 - Connects with stack member via Gigabit TP, SFP and 10G SFP+ interfaces
 - Single IP address management, supporting up to 8 IP units stacked together
- Hardware Stacking
 - Virtualized multiple SGS-6341 series stacked into one logical facility
 - Connects with stack members via assigned 10G SFP+ interfaces
 - Single IP address stack management, supporting up to 8 hardware units stacked together
 - Stacking architecture supports redundant Ring mode

Power over Ethernet

For SGS-6341-24P6X

- Complies with IEEE 802.3at Power over Ethernet Plus, end-span PSE
- Backward compatible with IEEE 802.3af Power over Ethernet
- Up to 24 ports of IEEE 802.3af/802.3at devices powered
- Supports PoE power up to 32 watts for each PoE port
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100 meters
- PoE management
 - Total PoE power budget control
 - Per port PoE function enable/disable
 - PoE port power feeding priority
 - Per PoE port power limitation
 - PD classification detection
 - PoE schedule

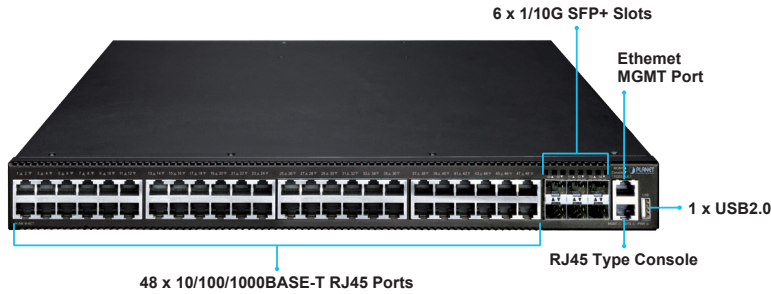
IPv4 Features

- Static Routing, RIP v1/v2, OSPFv2 and BGP
- Policy Routing
- BFD for OSPF and BGP

IPv6 Features

- ICMPv6, DHCPv6, ACLv6, IPv6 Telnet
- IPv6 Neighbor Discovery
- Path MTU Discovery
- MLD and MLD Snooping
- IPv6 Static Routing, RIPng, OSPFv3 and BGP4+
- Manual Tunnel, ISATAP Tunnel and 6-to-4 Tunnel

SGS-6341-48T6X:

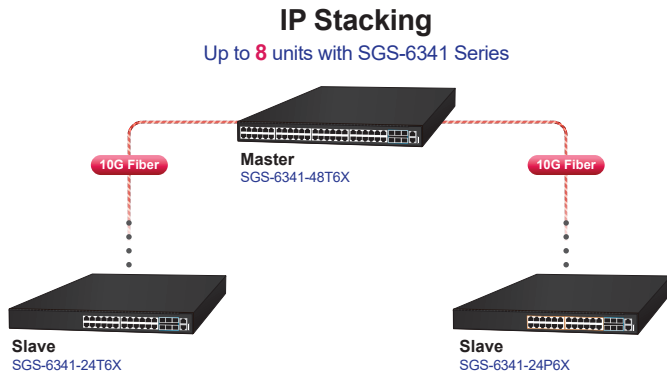


High Performance 10Gbps Ethernet Capacity

The six SFP+ slots built in the SGS-6341 series support **dual-speed, 10GBASE-SR/LR or 1000BASE-SX/LX**. With 10Gbps uplink interfaces, the SGS-6341 series boasts a high-performance switch architecture that is capable of providing non-blocking switch fabric and wire-speed throughput as high as 168 to 216Gbps, which greatly simplifies the tasks of upgrading the LAN for catering to increasing bandwidth demands.

Central IP Stacking Management

Positioned as the distribution or aggregation layer switch for large networks, the SGS-6341 series supports IP stacking function that helps network managers to easily configure up to 8 switches in the same series via one single IP address instead of connecting and setting each unit one by one. The IP Stacking technology groups PLANET SGS-6341 switch series together to enable centralized management through a single unit, regardless of physical location or switch type, as long as they are connected to the same local network.



Centralized Hardware Stacking Management

Up to 8 SGS-6341 Series units can be stacked to operate as a single logical switch, simplifying network management and expansion. The ring-based stacking design provides redundancy so that data traffic continues even if one unit fails. The switches can also be hot-swapped without service interruption, greatly streamlining upgrades and scaling for increasing bandwidth demands.



Multicast Routing Features

- Supports Multicast Routing Protocols:
 - **PIM-DM** (Protocol Independent Multicast - Dense Mode)
 - **PIM-SM** (Protocol Independent Multicast - Sparse Mode)
 - **PIM-SSM** (Protocol Independent Multicast - Source-Specific Multicast Mode)
- Supports IGMP v1/v2/v3

Layer 2 Features

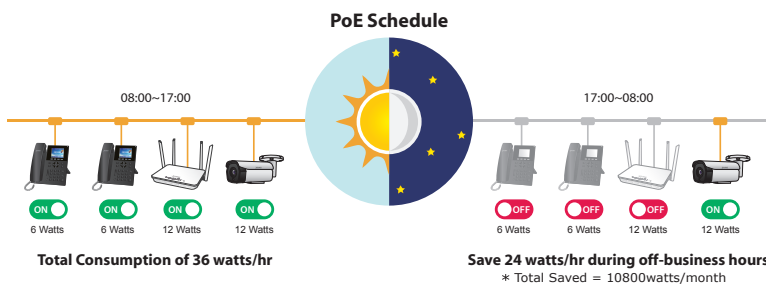
- Auto-MDI/MDI-X detection on each RJ45 port
- Prevents packet loss flow control
 - IEEE 802.3x pause frame flow control in full-duplex mode
 - Back-pressure flow control in half-duplex mode
- High performance Store-and-Forward architecture, broadcast storm control, port loopback detects
- 32K MAC address table, automatic source address learning and aging
- Supports VLAN
 - IEEE 802.1Q tag-based VLAN
 - GVRP for dynamic VLAN management
 - Up to 4094 active VLANs
 - Provider Bridging (VLAN Q-in-Q, IEEE 802.1ad) supported
 - Private VLAN Edge (PVE) supported
 - GVRP protocol for Management VLAN
 - Protocol-based VLAN
 - MAC-based VLAN
- Supports Link Aggregation
 - Maximum 32 trunk groups with up to 8 ports per trunk group
 - IEEE 802.3ad LACP (Link Aggregation Control Protocol)
 - Cisco ether-channel (static trunk)
- Supports Spanning Tree Protocol
 - STP, IEEE 802.1D (Classic Spanning Tree Protocol)
 - RSTP, IEEE 802.1w (Rapid Spanning Tree Protocol)
 - MSTP, IEEE 802.1s (Multiple Spanning Tree Protocol, spanning tree by VLAN)
 - BPDU & root guard
- Port mirroring to monitor the incoming or outgoing traffic on a particular port (many to many)
- Provides port mirror (many-to-1)
- Supports G.8032 ERPS (Ethernet Ring Protection Switching)

Quality of Service

- 8 priority queues on all switch ports
- Supports strict priority and WRR (Weighted Round Robin) CoS policies
- Traffic classification
 - IEEE 802.1p CoS/ToS
 - IPv4/IPv6 DSCP
 - Port-based WRR
- Strict priority and WRR CoS policies

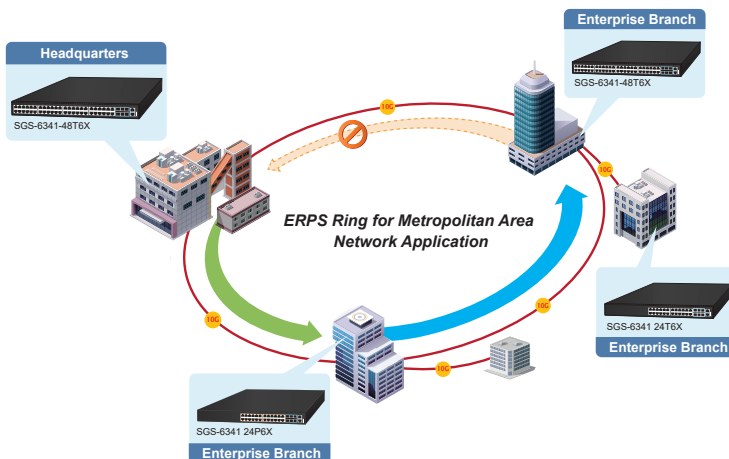
PoE Schedule for Energy Savings

Besides being used for IP surveillance, the SGS-6341-24P6X is certainly applicable to build any PoE network including VoIP and wireless LAN. Under the trend of energy savings worldwide and contributing to the environmental protection on the Earth, the SGS-6341-24P6X can effectively control the power supply besides its capability of giving high watts power. The “PoE schedule” function helps you to enable or disable PoE power feeding for each PoE port during specified time intervals and it is a powerful function to help SMBs or enterprises save energy and budget.



Redundant Ring, Fast Recovery for Critical Network Applications

The SGS-6341 Series supports redundant ring technology and features strong, rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates advanced ITU-T **G.8032 ERPS** (Ethernet Ring Protection Switching) technology and Spanning Tree Protocol (802.1s MSTP) into customer's network to enhance system reliability and uptime in harsh environments. In a certain simple Ring network, the recovery time could be less than 50ms to quickly bring the network back to normal operation.



Layer 3 Routing Support

The SGS-6341 series enables the administrator to conveniently boost network efficiency by configuring Layer 3 static routing manually, and the **RIP** or **OSPF** settings automatically. The RIP can employ the hop count as a routing metric and prevent routing loops by implementing a limit on the number of hops allowed in a path from the source to a destination. The OSPF is an interior dynamic routing protocol for autonomous system based on link state. The protocol creates a database for link state by exchanging link states among Layer3 switches, and then uses the Shortest Path First algorithm to generate a route table based on that database.

Multicast

- Supports IPv4 IGMP snooping v1, v2 and v3; and IPv6 MLD v1 and v2 snooping
- Querier mode supports
- Supports Multicast VLAN Register (MVR)

Security

- Authentication
 - IEEE 802.1x port-based network access authentication
 - Built-in RADIUS client to cooperate with the RADIUS servers
 - RADIUS/TACACS+ users access authentication
 - Change of Authorization (COA)
- Access Control List
 - IP-based Access Control List (ACL)
 - MAC-based Access Control List (ACL)
 - Port-based Access Control List (ACL)
 - Time-based ACL
- DHCP Snooping to filter distrusted DHCP messages
- Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding
- IP Source Guard prevents IP spoofing attacks

Management

- IPv4 and IPv6 dual stack management
- Switch Management Interfaces
 - Console and Telnet Command Line Interface
 - HTTP web switch management
 - SNMP v1 and v2c switch management
 - SSHv2, SSLv3, TLSv1.2 and SNMP v3 secure access
- SNMP Management
 - Four RMON groups (history, statistics, alarms, and events)
 - SNMP trap for interface Link Up and Link Down notification
- Built-in Trivial File Transfer Protocol (TFTP) client
- BOOTP and DHCP for IP address assignment
- System Maintenance
 - Firmware upload/download via HTTP
 - Reset button for system reboot or reset to factory default
 - Dual images
- DHCP Functions:
 - DHCP Relay
 - DHCP Option 82
 - DHCP Server
- User Privilege levels control
- Network Time Protocol (NTP)
- Network Diagnostic
 - SFP-DDM (Digital Diagnostic Monitor)
 - ICMP remote IP ping
- Syslog remote alarm
- System Log
- Supports ping, trace route function for IPv4 and IPv6

Rich Multi-layer Networking Protocols

The SGS-6341 Series comes with the complete Layer 3 managed function with comprehensive protocols and applications to facilitate the rapid service deployment and management for both the traditional L2 and L3 networks. With support for advanced features, including **RIP, RIPng, OSPFv2, OSPFv3, BGP, BGP4+**, etc., this switch is ideal for the traditional or fully-virtualized data center.

Strong Multicast

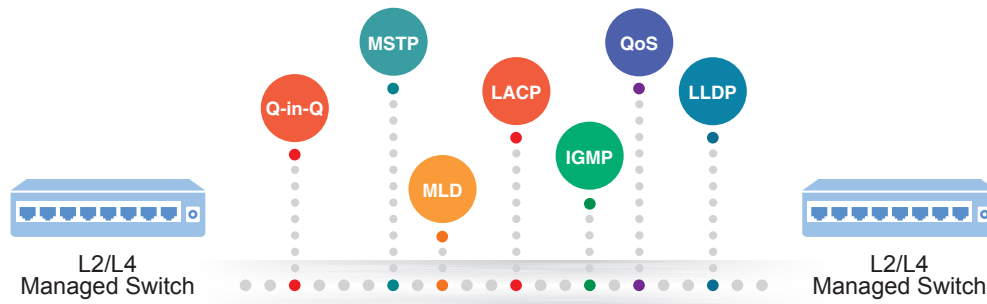
The SGS-6341 Series supports abundant multicast features. In Layer 2, it features IPv4 IGMPv1/v2/v3 snooping and IPv6 MLD v1/v2 snooping. With Multicast VLAN Registration (MVR), multicast receiver/sender control and illegal multicast source detection functions can be had. In Layer 3 multicast protocols, it features **PIM-DM, PIM-SM** and **PIM-SSM** which make the SGS-6341 Series great for any robust networking.

Full IPv6 Support

The SGS-6341 series provides **IPv6 management** and enterprise-level secure features such as **SSH, ACL, WRR** and **RADIUS** authentication. It thus helps the enterprises to step in the IPv6 era with the lowest investment. In addition, you don't need to replace the network facilities when the IPv6 FTTx edge network is built.

Robust Layer 2 Features

The SGS-6341 Series can be programmed for basic switch management functions such as port speed configuration, port aggregation, VLAN, Spanning Tree Protocol, WRR, bandwidth control and IGMP snooping. It also supports 802.1Q tagged VLAN, Q-in-Q, voice VLAN and GVRP Protocol. In addition, the number of VLAN interfaces is 1K and the number of VLAN IDs is 4K. By supporting port aggregation, the SGS-6341 Series allows the operation of a high-speed trunk combined with multiple ports. It enables up to 32 groups for trunk with a maximum of 8 ports for each group.



Excellent Layer 2 to Layer 4 Traffic Control

The SGS-6341 series is loaded with powerful traffic management and WRR features to enhance services offered by telecoms. The WRR functionalities include wire-speed Layer 4 traffic classifiers and bandwidth limitation which are particularly useful for multi-tenant unit, multi-business unit, Telco, or network service applications. It also empowers the enterprises to take full advantage of the limited network resources and guarantees the best in VoIP and video conferencing transmission.

Powerful Security from Layer 2 to Layer 4

The ACL policies supported can classify the traffic by source/destination IP addresses, source/destination MAC addresses, IP protocols, TCP/UDP, IP precedence, time ranges and ToS. Moreover, various policies can be conducted to forward the traffic. The SGS-6341 Series also provides IEEE 802.1x port-based access authentication, which can be deployed with RADIUS, to ensure the port level security and block illegal users. Thus, the SGS-6341 Series empowers enterprises and campuses to take full advantage of the limited network resources and guarantees the best performance in VoIP and video conferencing transmission.

Efficient and Secure Management

For efficient management, the SGS-6341 Series Managed Switch is equipped with console, Web and SNMP management interfaces.

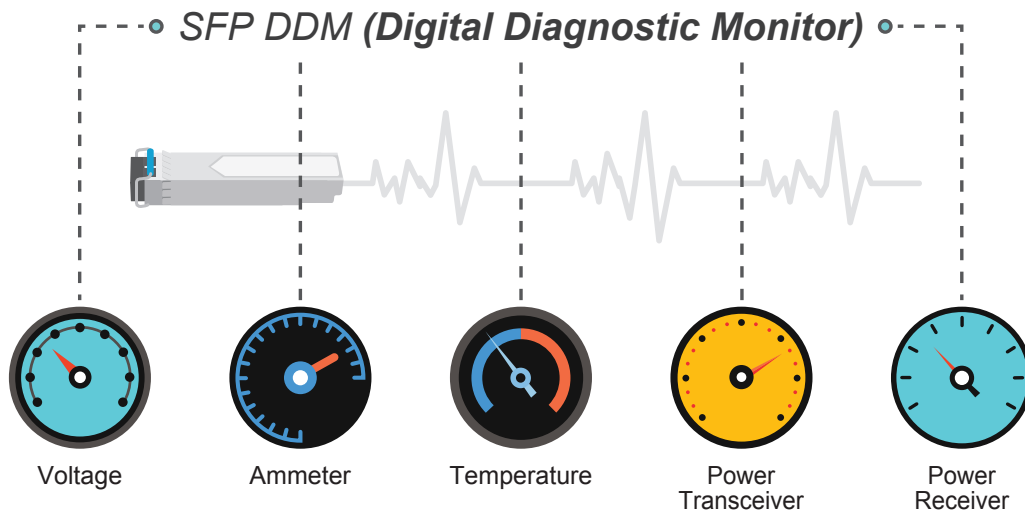
- With its built-in Web-based management interface, the SGS-6341 Series offers an easy-to-use, platform-independent management and configuration facility.
- The SGS-6341 Series supports standard Simple Network Management Protocol (SNMP) and can be managed via any standard-based management software.
- For reducing product learning time, the SGS-6341 Series offers Cisco-like command via Telnet or console port. Moreover, the SGS-6341 Series offers secure remote management by supporting SSH connection which encrypts the packet content at each session.

Moreover, the SGS-6341 Series offers secure remote management by supporting SSHv1/v2 and TLSv1.2 connection which encrypts the packet content at each session.



Intelligent SFP Diagnosis Mechanism

The SGS-6341 series supports **SFP-DDM (Digital Diagnostic Monitor)** function that greatly helps network administrator to easily monitor real-time parameters of the SFP and SFP+ transceivers, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

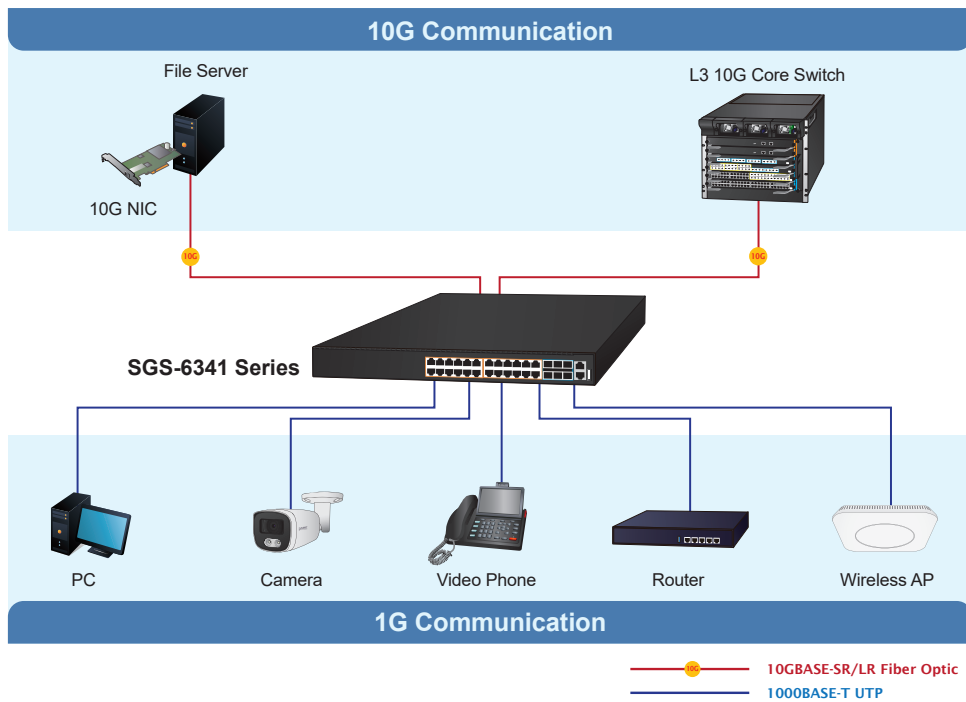


Applications

Excellent Solution to Enterprise Security and QoS Switch

The SGS-6341 series performs 168/216 Gigabits per second non-blocking switch fabric, so it can easily provide a local 10Gbps high bandwidth Ethernet network for the backbone of your department. With the six built-in SFP+ ports, the SGS-6341 series provides the uplink to the backbone network through the 10G Ethernet LR/SR SFP+ modules. It further improves the network efficiency and protects the network clients by offering the security and QoS features.

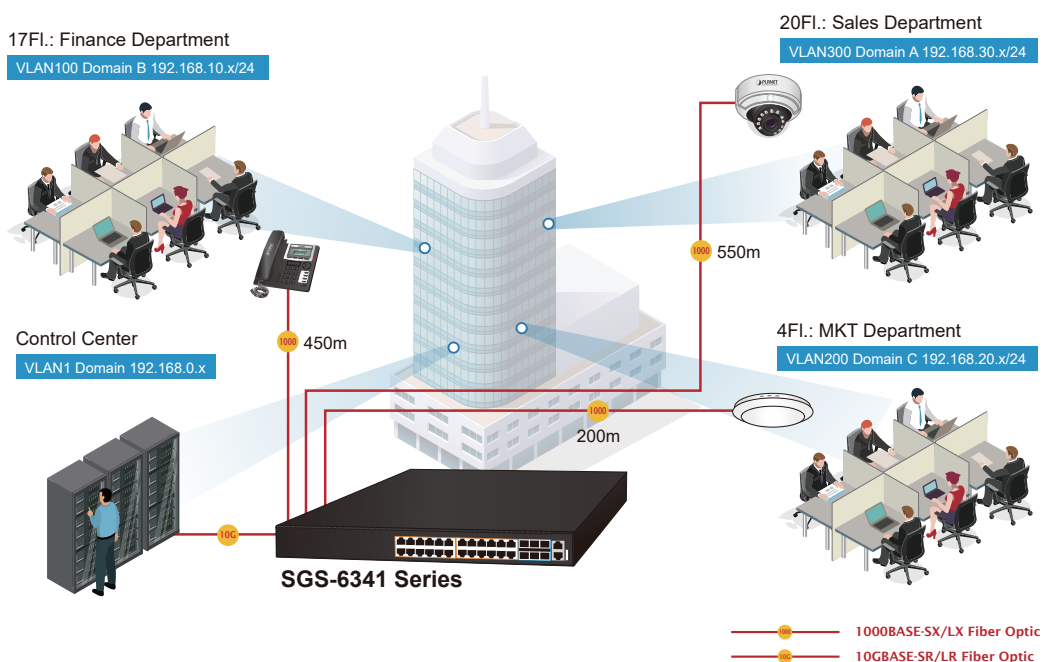
High Performance Server Service



Layer 3 VLAN Routing

With the built-in robust Layer 3 traffic routing protocols, the SGS-6341 series ensures reliable routing between VLANs and network segments. The routing protocols can be applied via VLAN interface. The SGS-6341 series is certainly a cost-effective and ideal solution for enterprises.

VLAN Routing + 10G Uplink Applications



Specifications

Product	SGS-6341-24P6X	SGS-6341-24T6X	SGS-6341-48T6X
Hardware Specifications			
10/100/1000 RJ45 Ports	24	24	48
10G SFP+ Ports	6 10GBASE-SR/LR SFP+ ports Backward compatible with 1000BASE-SX/LX/BX SFP transceiver		
MGMT	1 x 10/100BASE-T RJ45 port		
Console	1 x RJ45-to-DB9 serial port (115200, 8, N, 1)		
USB	1 x USB 2.0		
LED Indicator	System: PWR, SYS, MGMT Green Ports: 10/100/1000BASE-T RJ45 Port: LNK/ ACT and PoE-in-Use, Green 1G/10G BASE-SR/LR SFP+ Port: LNK/ACT, Green	System: PWR, SYS, MGMT Green Ports: 10/100/1000BASE-T RJ45 Port: LNK/ ACT Green 1G/10G BASE-SR/LR SFP+ Port: LNK/ACT, Green	System: PWR, SYS, MGMT Green Ports: 10/100/1000BASE-T RJ45 Port: LNK/ ACT Green 1G/10G BASE-SR/LR SFP+ Port: LNK/ACT, Green
Dimensions (W x D x H)	440 x 380 x 43.6 mm 1U height		
Weight	5180g	4393g	4783g
Power Consumption	System on 24.8 watts/84.5 BTU (maximum) Full loading 434 watts/1479.9BTU (maximum)	15.7 watts/53.5 BTU (maximum) 33.9 watts/115.5BTU (maximum)	20 watts/68.2 BTU (maximum) 50.2 watts/171.1BTU (maximum)
Power Requirements	AC 100~240V, 50/60Hz		
Fan	5 (Smart FAN)	1 (Smart FAN)	2 (Smart FAN)
ESD Protection	6kV	6kV	6kV
Surge Protection	6kV	6kV	6kV
Switching Performance			
Switch Architecture	Store-and-forward		
Switch Capacity	168Gbps/non-blocking	168Gbps/non-blocking	216Gbps/non-blocking
Switch Throughput	125Mpps	125Mpps	160Mpps
Address Table	32K MAC address table with auto learning function		
ARP Table	1K		
Routing Table	1K		
VLAN Interface	1K		
IP Interface	4096		
ACL Table	3K		
Routing entries	1K		
Shared Data Buffer	8MB		
Jumbo Frame	12KB		
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex		
Power over Ethernet Specifications			
PoE Standard	IEEE 802.3at PoE+ PSE Backward compatible with 802.3af PoE	--	--
PoE Power Supply Type	End-span	--	--
PoE Power Output	Per port 54V DC, 32 watts (max.)	--	--
Power Pin Assignment	1/2(+), 3/6(-)	--	--
PoE Power Budget	370 watts (max.)	--	--
PoE Ability PD @ 9 watts	24 units	--	--
PoE Ability PD @ 15 watts	24 units	--	--
PoE Ability PD @ 30 watts	12 units	--	--
IPv4 Layer 3 Functions			
IP Routing Protocol	RIP v1/v2 OSPFv2 BGP (Border Gateway Protocol) Static routing		
Multicast Routing Protocol	PIM-DM and PIM-SM PIM-SSM		
VRRP	Configure VRRP in interface VLAN VRRP priority VRRP standby VRRP track		

Routing Features	VRRP Policy routing Load balance through equal-cost routing BFD (Bidirectional Forwarding Detection) for OSPF and BGP
DHCP	DHCP client DHCP server, default route DHCP relay
IPv6 Layer 3 Functions	
IP Routing Protocol	RIPng OSPFv3 VRRPv3 URPF RA BGP4+
Routing Features	Manual tunnel ISATAP tunnel Configured Tunnel GRE Tunnel 6-to-4 tunnel
IPv6 Functions	ICMPv6, DHCPv6, ACLv6, IPv6 Telnet IPv6 Neighbor Discovery Path MTU Discovery ICMPv6 ND, DNSv6 IPv6 LPM Routing IPv6 Policy-based Routing (PBR)
Layer 2 Function	
Port Configuration	Port disable/enable Flow control disable/enable Bandwidth control on each port Port loopbacks detect
Port Status	Display each port's speed duplex mode, link status, flow control status and auto negotiation status
VLAN	IEEE 802.1Q tag-based VLAN, up to 4K VLAN entries IEEE 802.1ad Q-in-Q VLAN stacking/tunneling GVRP for VLAN management Private VLAN Edge (PVE) supported Protocol-based VLAN MAC-based VLAN IP subnet VLAN
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 protection, root protection
IPv4 IGMP Snooping	IPv4 IGMP v1/v2/v3 snooping IGMP Fast Leave IPv4 Querier mode support IGMP Filtering and IGMP Throttling IGMP Proxy reporting
IPv6 MLD Snooping	IPv6 MLD v1/v2 snooping Multicast VLAN Register (MVR)
Bandwidth Control	Ingress and Egress At least 64Kbps stream
Ring	Supports ITU-T G.8032 ERPS
Link Aggregation	IEEE 802.3ad LACP/static trunk Supports 32 groups with 8 ports per trunk group

QoS	<p>8 priority queues on all switch ports</p> <p>Traffic Supervision and Traffic Shaping</p> <p>Scheduling for priority queues</p> <ul style="list-style-type: none"> - Weighted Round Robin (WRR) - Strict priority (SP) - SP+WRR <p>Traffic classification:</p> <ul style="list-style-type: none"> - IEEE 802.1p CoS - DSCP - DiffServ - Precedence - TOS - VLAN ID - IP ACL - MAC ACL - Port ACL <p>Policy-based ingress and egress QoS</p> <p>802.1p and DSCP priority remark</p>
Security Function	
Access Control List	<p>Supports Standard and Expanded ACL</p> <p>IP-based ACL/MAC-based ACL/Port-based ACL</p> <p>Time-based ACL</p> <p>Up to 1K entries</p>
Security	<p>Port isolation</p> <p>Port security, supports IP + MAC + port binding</p> <p>Identification and filtering of L2/L3/L4 based ACL</p> <p>Defend against DOS or TCP attacks</p> <p>Suppression of broadcast, multicast and unknown unicast packet</p> <p>DHCP Snooping, DHCP Option 82</p> <p>Command line authority control based on user levels</p>
Authentication	<p>IEEE 802.1x port-based network access control</p> <p>AAA authentication: TACACS+ and IPv4/IPv6 over RADIUS</p>
AAA	<p>TACACS+ and IPv4/IPv6 over RADIUS</p>
Network Access Control	<p>IEEE 802.1x port-based network access control</p>
Management Function	
System Configuration	<p>Console and Telnet</p> <p>Web browser</p> <p>SNMP v1, v2c</p>
Secure Management Interfaces	<p>SSHv2, SSLv3 TLS v1.2 and SNMPv3</p> <p>Maximum 8 sessions for SSH and Telnet connection</p>
System Management	<p>Supports both IPv4 and IPv6 Protocols</p> <p>Supports the user IP security inspection for IPv4/IPv6 SNMP</p> <p>Supports MIB and TRAP</p> <p>Supports TFTP, FTP</p> <p>Supports IPv4/IPv6 NTP</p> <p>Supports RMON 1, 2, 3, 9 groups</p> <p>Supports the RADIUS authentication for IPv4/IPv6 Telnet user name and password</p> <p>Supports Change of Authorization (COA)</p> <p>The right configuration for users to adopt RADIUS server's shell management</p> <p>Supports CLI, console, Telnet</p> <p>Supports Security IP safety net management function: avoid unlawful landing at non-restrictive area</p> <p>Supports TACACS+</p> <p>Supports SPAN, RSPAN</p>
Stacking Management	<p>Supports IP Stacking and Hardware Stacking</p> <p>8 members max.</p> <p>2 software-defined ports function as Stacking Up and Down interfaces</p> <p>Note: The firmware version of each switch must be identical.</p>
Event Management	<p>Supports syslog server for IPv4 and IPv6</p>

SNMP MIBs	<p>RFC 1066 TCP/IP-based MIB RFC 1213 MIB-II RFC 1215 Internet Engineering Task Force RFC1757 RMON group 1,2,3,9 RFC 1354 IP-Forwarding MIB RFC 1493 Bridge MIB RFC 1643 Ether-like MIB RFC 1907 SNMPv2 RFC 2011 IP/ICMP MIB RFC 2012 TCP MIB RFC 2013 UDP MIB RFC 2096 IP forward MIB RFC 2233 if MIB RFC 2452 TCP6 MIB RFC 2454 UDP6 MIB RFC 2465 IPv6 MIB RFC 2466 ICMP6 MIB RFC 2573 SNMPv3 notification RFC 2574 SNMPv3 VACM RFC 2674 Bridge MIB Extensions</p>
Standard Conformance	
Regulatory Compliance	FCC Part 15 Class A, CE
Standards Compliance	<p>IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3z Gigabit 1000BASE-SX/LX IEEE 802.3ab Gigabit 1000BASE-T IEEE 802.3ae 10Gb/s Ethernet IEEE 802.3at Power over Ethernet plus IEEE 802.3x flow control and back pressure IEEE 802.3ad port trunk with LACP IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1p Class of Service IEEE 802.1Q VLAN tagging IEEE 802.1X port authentication network control IEEE 802.1ab LLDP RFC 768 UDP RFC 783 TFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP v1 RFC 2236 IGMP v2 RFC 3376 IGMP v3 RFC 2710 MLD v1 RFC 3810 MLD v2 RFC 2328 OSPF v2 RFC 1058 RIP v1 RFC 2453 RIP v2 RFC 5176 COA</p>
Environment	
Operating	<p>Temperature: 0 ~ 50 degrees C Relative Humidity: 10 ~ 85% (non-condensing)</p>
Storage	<p>Temperature: -40 ~ 80 degrees C Relative Humidity: 5 ~ 95% (non-condensing)</p>

Ordering Information

SGS-6341-24P6X	Layer 3 24-Port 10/100/1000T 802.3at PoE + 6-Port 10G SFP+ Stackable Managed Ethernet Switch (370W)
SGS-6341-24T6X	Layer 3 24-Port 10/100/1000T + 6-Port 10G SFP+ Stackable Managed Ethernet Switch
SGS-6341-48T6X	Layer 3 48-Port 10/100/1000T + 6-Port 10G SFP+ Stackable Managed Ethernet Switch

Related Products

SGS-6341-16S8C4XR	Layer 3 16-Port 100/1000X SFP + 8-Port Gigabit TP/SFP + 4-Port 10G SFP+ Stackable Managed Switch (100~240V AC, 36~75V DC)
SGS-6341-24P4X	Layer 3 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Stackable Managed Switch (370W)
SGS-6341-48T4X	Layer 3 48-Port 10/100/1000T + 4-Port 10G SFP+ Stackable Managed Switch
SGS-6310-24T4X	L3 24-Port 10/100/1000T + 4-Port 10G SFP+ Stackable Managed Switch
SGS-6310-24P4X	L3 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Stackable Managed Switch
SGS-6310-16S8C4XR	L3 16-Port 100/1000X SFP + 8-Port Gigabit TP/SFP + 4-Port 10G SFP+ Stackable Managed Switch (Dual 100~240V AC)
SGS-6310-48T6X	L3 48-Port 10/100/1000T + 6-Port 10G SFP+ Stackable Managed Switch
XT-705A	10G/5G/2.5G/1G/100M Copper to 10GBASE-X SFP+ Media Converter
XT-715A	10GBASE-T to 10GBASE-X SFP+ Media Converter
CB-DASFP-0.5M/2M	10G SFP+ Directly-attached Copper Cable (0.5/2M in length)

Available Modules

10Gigabit SFP+ (10G Ethernet/10GBASE)

MTB-LA10	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 10km (TX:1270nm RX:1330nm)
MTB-LB10	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 10km (TX:1330nm RX:1270nm)
MTB-LA20	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 20km (TX:1270nm RX:1330nm)
MTB-LB20	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 20km (TX:1330nm RX:1270nm)
MTB-LA40	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 40km (TX:1270nm RX:1330nm)
MTB-LB40	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 40km (TX:1330nm RX:1270nm)
MTB-LA60	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 60km (TX:1270nm RX:1330nm)
MTB-LB60	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 60km (TX:1330nm RX:1270nm)
MTB-RJ	1-Port 10GBASE-T SFP+ Copper Fiber Optic Module - 30m
MTB-SR	1-Port 10GBASE-SR SFP+ Fiber Optic Module - 300m
MTB-SR2	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 2km
MTB-LR	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 10km
MTB-LR20	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 20km
MTB-LR40	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 40km
MTB-LR60	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 60km
MTB-LR80	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 80km

Gigabit Ethernet Transceiver (1000BASE-X SFP)

MGB-GT	SFP-Port 1000BASE-T Module
MGB-LX	SFP-Port 1000BASE-LX mini-GBIC module - 20km
MGB-SX	SFP-Port 1000BASE-SX mini-GBIC module - 550m
MGB-SX2	SFP-Port 1000BASE-SX mini-GBIC module - 2km
MGB-L40	SFP-Port 1000BASE-LX mini-GBIC module - 40km
MGB-L80	SFP-Port 1000BASE-LX mini-GBIC module - 80km
MGB-L120	SFP-Port 1000BASE-LX mini-GBIC module - 120km
MGB-LA10	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC module - 10km
MGB-LB10	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module - 10km
MGB-LA20	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC module - 20km
MGB-LB20	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module - 20km
MGB-LA40	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC module - 40km
MGB-LB40	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module - 40km
MGB-LA80	SFP-Port 1000BASE-BX (WDM, TX:1490nm) mini-GBIC module - 80km
MGB-LB80	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module - 80km