

# GS5048S4

CUDY GS5048S4 48-Port Layer 3 Managed Gigabit Switch with 4 10G SFP Slot



Model	GS5048S4
Brend	Cudy
Port sayı	48 Port
Tip	Managed
Port sürəti	1000mb/s

## Specification

Model	GS5048S4
AC INPUT	AC100-240V@50/60Hz
Ethernet Port	48× Gigabit Ethernet Ports
	4× 10G SFP+ Ports
	1× RJ45 Console Port
USB Port	1× USB Console Port
Bandwidth	176 Gbps
Packet Forwarding rate	131 Mpps
DDR SDRAM	512 MB
Flash Memory	32 MB
Packet Buffer Memory	16 Mbit (2 MB)
MAC Address	32K
Jumbo frame	12 KB
VLANs	4096
Standard	
Network Protocols	<p>IEEE 802.3: Ethernet MAC Protocol  IEEE 802.3i: 10BASE-T Ethernet  IEEE 802.3u: 100BASE-TX Fast Ethernet  IEEE 802.3ab: 1000BASE-T Gigabit Ethernet  IEEE 802.3z: 1000BASE-X Gigabit Ethernet (optical fiber)  IEEE 802.3ae: 10G Ethernet (optical fiber)  IEEE 802.3az: Energy Efficient Ethernet  IEEE 802.3ad: Standard method for performing link aggregation  IEEE 802.3x: Flow control  IEEE 802.1ab: LLDP/LLDP-MED (Link Layer Discovery Protocol)  IEEE 802.1p: LAN Layer QoS/CoS Protocol Traffic Prioritization(Multicast filtering function)  IEEE 802.1q: VLAN Bridge Operation  IEEE 802.1x: Client/Server Access Control and Authentication Protocol  IEEE 802.1d: STP  IEEE 802.1s: MSTP  IEEE 802.1w: RSTP</p>

Network Media	<p>10BASE-T: Cat3 / 4 / 5 or above UTP (≤100 m)</p> <p>100BASE-TX: Cat5 or above UTP (≤100 m)</p> <p>1000BASE-TX: Cat5 or above UTP (≤100 m)</p> <p>Multi-mode Fiber: 50/125, 62.5/125, 100/140um</p> <p>Single-mode Fiber: 8/125, 8.7/125, 9/125, 10/125um</p>
Working Environment	<p>Operating temperature: -10 ~ 50°C (14°F ~ 122°F)</p> <p>Storage temperature: -40 ~ 70°C (-40°F ~ 158°F)</p> <p>Operating Humidity: 10%~90%, No condensation</p> <p>Storage Humidity: 5%~90%, No condensation</p>
<b>Function indication</b>	
Indicator Light	PWR(Power indicator), SYS(System lights), Link/ACT(Link light/data light)
<b>Physical Specification</b>	
Structure Size	<p>Product Dimensions: 440×280×44 mm (17.32 × 11.02 × 1.73 inches)</p> <p>Package Dimensions: 500×365×85 mm (19.69 × 14.37 × 3.35 inches)</p> <p>Product N.W: 3.87 kg</p> <p>Product G.W: 4.70 kg</p>
Power Voltage	Machine Input Voltage: AC 100-240V
<b>Software Function</b>	
Basic Function	<p>Support hardware watchdog, factory reset, system and port LED</p> <p>Support global information, statistical information, log information</p> <p>Support User management, alarm management, configuration management</p> <p>Support Port rate, duplex, flow control, maximum frame length configuration</p> <p>Support Port mirroring, port speed limit, port energy saving</p>
Layer 3 Interface	<p>Support Layer 3 interface</p> <p>Support IPv4, IPv6 address configuration</p> <p>Support ARP configuration</p> <p>Support ND configuration</p>
Layer 3 Routing	<p>Support IPv4 static routing</p> <p>Support IPv6 static routing</p> <p>Support RIP V1/V2</p> <p>Support OSPF</p>
DHCP	<p>Support DHCP server</p> <p>Support DHCP relay</p> <p>Support DHCP Snooping</p>
VLAN	<p>Support 4K VLAN</p> <p>Support 802.1Q VLAN based on port VLAN</p> <p>Support Access / Trunk / Hybrid VLAN mode</p> <p>Support GVRP (VLAN registration protocol)</p> <p>Support MAC VLAN / IP VLAN</p> <p>Support Voice VLAN</p>
MAC Address	<p>Support MAC address automatic learning and aging</p> <p>Support Static, dynamic, filtered address table</p>
Security features	<p>Password protection</p> <p>Support Restrict user access based on port number, IP address, MAC address</p> <p>Support HTTPS / SSH V1/V2</p> <p>Support IP-MAC-PORT-VLAN binding</p> <p>Support ARP detection, IP source protection, DoS protection</p> <p>Support DHCP Snooping / DHCP Attack protection</p> <p>Support 802.1X Certification</p> <p>Support AAA (Authentication, Authorization, Accounting), Support RADIUS protocol, TACACS+</p> <p>Support Port security, port isolation</p>
Access control	<p>Support L2(Layer 2)~L4(Layer 4) Packet filtering function</p> <p>Support Port mirroring, flow rate limiting, QoS remarking</p>
QOS	<p>Support 8 port queues</p> <p>Support Port priority, 802.1P priority, DSCP priority</p> <p>Support SP, WRR Priority scheduling algorithm</p>
Spanning tree	<p>Support STP(IEEE 802.1d), RSTP(IEEE 802.1w) and MSTP(IEEE 802.1s) protocol</p> <p>Support Multi-instance, Support Aggregate interface</p> <p>Support BPDU protection</p>

Multicast	<ul style="list-style-type: none"><li>Support IGMP v1/v2/v3 Snooping</li><li>Support MLD v1/v2 Snooping</li><li>Support Layer 2 multicast fast leave mechanism, querier</li><li>Support Layer 2 IPv4 static multicast</li><li>Support Layer 2 IPv6 static multicast</li><li>Support IGMP v1/v2/v3 Layer 3 multicast</li></ul>
Storm suppression	<ul style="list-style-type: none"><li>Support multicast suppression</li><li>Support broadcast storm suppression</li><li>Support unknown unicast suppression</li></ul>
Ring protection	<ul style="list-style-type: none"><li>Support Ring protection</li></ul>
Link Aggregation	<ul style="list-style-type: none"><li>Support Static Aggregation</li><li>Support LACP Dynamic Aggregation</li><li>Support based on IP, MAC, mixed load-balancing modes</li><li>Maximum support 32 aggregation groups (8 ports per aggregation group)</li></ul>
IPv6	<ul style="list-style-type: none"><li>Support IPv6 Ping / IPv6 Traceroute / IPv6 Telnet</li><li>Support IPv6 SSH</li><li>Support IPv6 HTTP / IPv6 HTTPS</li></ul>
Management and Maintenance	<ul style="list-style-type: none"><li>Support WEB Management (HTTP / HTTPS)</li><li>Support CLI (Telnet, SSH V1/V2, Local serial port)</li><li>Support SNMP V1/V2/V3</li><li>Support RMON V2</li><li>Support LLDP Device discovery</li><li>Support SNTP Time synchronization</li><li>Support CPU Monitoring, Memory Monitoring</li><li>Support System log, classification warning</li><li>Support Ping, Traceroute detection, cable detection</li></ul>