



EnGenius Cloud Managed ECS5512F

12-Port 10 Gigabit SFP+ Half-Rack Aggregate Switch

Product Highlights

The EnGenius cloud-managed ECS5512F 12-port 10G fiber SFP+ half-rack aggregate switch, expandable to two per rack, boosts traffic flow and network performance. Administrators can easily scale from 12 to 24 SFP+ ports on a single rack as network demands increase in large business, multi-dwelling unit, hospitality, and campus environments.



Bullet Points/Differentiators

- (12) 10 Gigabit SFP+ Ports.
- Full-Featured Layer 2+Fiber Switch.
- 240 Gbps Switching Capacity.
- Half Rack 1U (19") Mount Expandable to Two Switches per Rack.
- Real-Time System Metrics, Deep-Dive Analytics and Remote Configurations.
- Quick-Scan Device Register, Remote Monitoring and Troubleshooting.
- Advanced View Displays Network Topology with Devices and Relationships.
- Hybrid Switch Supports Multiple Management Options.
- Security - Access Control List/Port Security; 802.1X & RADIUS Authentication.
- IGMP & MLD snooping provides advanced multicast filtering & network efficiency.
- 802.3ad Link Aggregation (LACP) Supports Traffic Load Balancing.
- Spanning Tree (STP), Rapid Spanning Tree (RSTP) & Multiple Spanning Tree (MSTP).
- Voice VLAN for fast, reliable deployment of VoIP services.
- Advanced QoS with IPv4/IPv6 ingress traffic filtering (ACLs) & prioritization.
- Energy Efficient Ethernet (802.3az) improves energy savings when used with other compliant devices.
- Standards-based technology ensures interoperability with existing standards-based network devices.
- Dual firmware images improve reliability & network uptime.

Technical Specifications

ECS5512F

Port Standards

802.3 10Base-T Ethernet

802.3u 100Base-TX Ethernet

802.3ab 1000Base-T Ethernet

802.3bz 2.5G Base-T Ethernet

802.3x Full-Duplex Flow Control

Network Ports

12 SFP+ Ports

Switching Capacity

240Gbps

SDRAM

512MB

Flash Memory

128MB

Power Source

100 ~ 240VAC, 50-60Hz

PHYSICAL INTERFACE

LED Indicators

Power LED

Fault LED

Ports	Time base ACL	Configuration Upgrade/Backup
Link/Activity/Speed (per SFP slot)	Web Graphical User Interface (GUI)	Simple Network Time Protocol (SNTP)
SOFTWARE FEATURES (L3 FEATURE)	HTTP IPv4 / IPv6	SYSLOG
Multiple IP Interface	HTTPS IPv4 / IPv6	ENVIRONMENTAL & PHYSICAL
20 IPv6 address	SSL Certificate	Temperature Range
ARP Table	Certificate/Key Import	Operating: 32°F to 122°F (0°C to 50°C)
Max. 192 ARP entries	SNMP	Humidity (Non-Condensing)
Static ARP	SNMP v1/v2c/v3 Support	Operating: 5% - 90%
Static 192 ARP entries	RMON	Package Contents
IPv4 Static Route	RMON 1,2,3,9	1x Cloud Managed Fiber Switch
Max. 63 entries	System Time	1x Quick Installation Guide
IPv6 Static Route	Time Setting/Daylight saving	1x Power Cord
Max. 21 entries	Common L2 Features	1x RJ45 Console Cable
SOFTWARE FEATURES (L2 FEATURE)	802.1d Spanning tree	1x Half-Rack Mount Kit
Network Management	Loopback Detection	1x 1U Rack Mount Kit
EnGenius Cloud	Multicast Filtering	DIMENSIONS & WEIGHTS
Local Web GUI	Multicast Group	Device
MAC Address Table	IGMP Multicast Forwarding	Weight: 1.39kg (3.07 lbs.)
16K	IGMP Snooping	Width: 210mm (8.27")
Jumbo Frame	MLD Multicast Forwarding	Length: 230mm (9.06")
9K	802.1Q VLAN tagging	Height: 44mm (1.74")
Multicast Group	802.3x flow control	Packaging
Max 256 groups	802.3ad Link Aggregation	Weight: 2.6kg (5.74 lbs.)
MLD Snooping	IPv4 DHCP Relay	Width: 330mm (13")
MLD Snooping: v1	IPv4 DHCP Snooping	Length: 350mm (13.78")
QoS-Number of Priority Queues Supported	IPv4 DHCP Snooping Source MAC Address Check-up	Height: 130mm (5.12")
Queue 8	ARP Inspection	Certifications
Trust Mode	ARP Packet Validation (additional validation checks)	CE, FCC, IC
Cos/802.1p	Voice VLAN	Warranty
DSCP	Port-based VLAN	2 years
CoS/802.1p-DSCP	Protocol-Based VLAN	
Scheduling Mechanism	Dynamic VLAN	
Strict / WRR/ Strict + WRR	VLAN Group	
Bandwidth Control	CoS Mapping	
Port-based bandwidth control (Ingress/Egress)	802. 1X Radius Authentication Protocol	
Port Security	IPv4 Settings	
Max. 256 Entries	IPv6 Settings	
Access Control List (ACL)	IEEE 802. 3az Energy Efficient Ethernet (EEE)	
Ingress	Command Line Interface (CLI)	
MAC Based ACL	SSH Server	
IPv4/IPv6 Based ACL	Telnet Server	
ACL Binding	TFTP Client	
Action: Permit/Deny		

Product Images

ECS5512F



EnGenius Technologies | 1580 Scenic Ave. Costa Mesa, CA 92626

Email: partners@enginustech.com | Website: enginustech.com

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Maximum data rates are based on IEEE 802.11 standards. Actual throughput and range may vary depending on distance between devices or traffic and bandwidth load in the network.

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