

# EGS7228FP

24-port Gigabit AT PoE + 4SFP Smart Switch + Full power at 370Watt + Optional Redundant Power Supply (RPS370) to enhance power to 740Watt

## PRODUCT OVERVIEW



The EnGenius EGS7228FP is a PoE Switch specially tailored for 802.11ac Access Points, Speed dome and PTZ surveillance applications and VoIP system. EGS7228FP, one of the members from EnGenius Layer 2 PoE Switch family it offers 24-Gigabit ports with IEEE802.3at PoE Support on all Ethernet ports and 4 SFP slot for uplink purposes.

EGS7228FP supports Power-over-Ethernet (PoE) on all ports, which compliant with IEEE802.3af/at standards, delivering up to 30 watts along with the connected Ethernet cables to powered devices. It has an optional Redundant Power supply to enhance power budget from 370Watt to 740Watt (with RPS370).

The EGS7228FP supports VLAN, QoS, Bandwidth control, Link Aggregation Control Protocol (LACP), IGMP Snooping features for priority based application, such as IP surveillance or video/voice transitions and SNMP v1/v2c/v3, RMON, Access Control List for easy network security. Moreover, it offers PoE Management on ports or even priority base configuration.

EGS7228FP Datasheet Version 180214

*\*Theoretical wireless signal rate based on IEEE standard of 802.11 b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.*

*\*\* All specifications are subject to change without notice*

Business Class  
**EGS7228FP**

TECHNICAL SPECIFICATIONS	
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<b>Network Protocol and Standard Compatibility</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3 10BASE-T (Twisted Pair Copper)</li> <li>• IEEE 802.3u 100BASE-TX (Twisted Pair Copper)</li> <li>• IEEE 802.3ab 1000BASE-T (Twisted Pair Copper)</li> <li>• IEEE 802.3z 1000BASE-X</li> <li>• IEEE802.3x full duplex flow control</li> </ul>
<b>Network Ports</b>	<ul style="list-style-type: none"> <li>• 24 10/100/1000Mbps Auto Sensing Gigabit Ethernet</li> <li>• 4 SFP Slots</li> </ul>
<b>Power Consumption</b>	452W Maximum
<b>PoE Power Budget</b>	370W
<b>PoE Standard</b>	IEEE802.3af and IEEE802.3at
<b>PoE mode type</b>	Mode B (deliver power over pair 4-5, 7-8)
<b>PoE Capable Ports</b>	<ul style="list-style-type: none"> <li>• Port 1 to 24: 7.5W, 15.4W or 30W</li> <li>• Max 30W on 12 10/100/1000Mbps Port</li> <li>• Max 15.4W on 24 10/100/1000Mbps Port</li> <li>• Max 7.5W on 24 10/100/1000Mbps Port</li> </ul>
PERFORMANCE	
<b>Switch Capacity</b>	56Gbps
<b>Forwarding Rate</b>	41.664Mpps
<b>Forwarding Mode</b>	Store and Forward
<b>RAM Buffer Memory</b>	256Mb
<b>Flash Memory</b>	32Mbytes
<b>Jumbo Frame</b>	9.6K
<b>MAC Address Table</b>	8K
INDICATOR	
<b>LED</b>	<ul style="list-style-type: none"> <li>• Power LED</li> <li>• Fault LED</li> <li>• PoE Max LED</li> <li>• LAN Mode LED</li> <li>• PoE Mode LED</li> <li>• Copper Ports: LAN/PoE Mode, Link/Act</li> <li>• SFT Ports: Link/Act</li> </ul>
SOFTWARE FEATURES	
L2 FEATURES	
<b>802.3ad Link Aggregation</b>	Yes (Support 4 ports/groups; 2 groups per device)
<b>Port Trunking</b>	Yes
<b>Port Mirroring</b>	Yes
<b>Spanning Tree Protocol</b>	<ul style="list-style-type: none"> <li>• 802.1D Spanning Tree (STP)</li> <li>• 802.1w Rapid Spanning Tree (RSTP)</li> <li>• 802.1s Multiple Spanning Tree (MSTP)</li> </ul>
<b>IGMP Snooping</b>	Support IGMP v1/v2/v3

<b>IGMP Fast Leave</b>	Yes
<b>MLD Snooping</b>	Yes
<b>Port Mirroring</b>	One-to-One, Many-to-One, Supports Mirroring for Tx/Rx/Both
<b>Cable Diagnostics</b>	Yes
<b>VLAN</b>	
<b>802.1Q</b>	Yes
<b>VLAN Group</b>	• Max 64 static VLAN groups, max 4094 VIDs
<b>Voice VLAN</b>	Yes
<b>QoS (Quality of Service)</b>	
<b>802.1p Quality of Service</b>	Yes
<b>Queue Handling</b>	8 priority queues supported
<b>CoS based on</b>	<ul style="list-style-type: none"> <li>• 802.1p Priority Queues</li> <li>• Physical Port</li> <li>• TOS</li> <li>• DSCP</li> </ul>
<b>Bandwidth Control</b>	• Port-based (Ingress/Egress, min. granularity 64 Kb/s)
<b>SECURITY</b>	
<b>802.1X Port-based Access Control</b>	Yes
<b>802.1X Guest VLAN</b>	Yes
<b>Port Security</b>	Yes
<b>Storm Control</b>	Yes
<b>DOS Attack Prevention</b>	Yes
<b>Access Control List (ACL)</b>	Yes
<b>MANAGEMENT</b>	
<b>PoE Management</b>	<ul style="list-style-type: none"> <li>• Power on/off per port</li> <li>• Power class configuration</li> <li>• Power feeding with priority</li> <li>• User define power limit</li> </ul>
<b>Telnet Server</b>	Yes

<b>SSH Server</b>	Yes
<b>TFTP Client</b>	Yes
<b>BootP/DHCP Client</b>	Yes
<b>Web Based Support</b>	Yes
<b>SNMP</b>	v1/v2c/v3 support
<b>TFTP upgrade</b>	Yes
<b>Command Line Interface (CLI)</b>	Yes
<b>Time Setting</b>	SNTP
<b>Support RMON v1</b>	Yes
<b>System Log</b>	Yes
<b>Cable Diagnostic</b>	Yes
<b>MIB Support</b>	<ul style="list-style-type: none"> <li>• RFC1213</li> <li>• RFC1493</li> <li>• RFC1757</li> <li>• RFC2674</li> </ul>
<b>HARDWARE SPECIFICATIONS</b>	
<b>Power Supply</b>	100 ~ 240 VAC
<b>Environment</b>	<ul style="list-style-type: none"> <li>• Operating temperature: 0 ~ 50°C</li> <li>• Storage Temperature: -40 ~ 70°C</li> <li>• Humidity 5 ~ 95% non-condensing</li> </ul>
<b>Dimension</b>	440mm x 260mm x 44mm
<b>Weight</b>	TBD

