

## L2+ Industrial 8-Port 10/100/1000T 802.3at PoE + 8-Port 100/1000X SFP Managed Ethernet Switch

### Features

- ▶ 8-Port 10/100/1000T 802.3at PoE + 8-Port 100/1000X SFP
- ▶ Compatible with mainstream industrial automation protocols, Modbus TCP, Ethernet/IP, Profinet RT, EthernetCat, etc.
- ▶ Using high-performance chips and the latest industrial design
- ▶ Reliable anti-surge, anti-lightning, anti-electromagnetic interference, anti-vibration, stable and resistant to harsh working environments.
- ▶ Din-rail installation
- ▶ Supports IPv4/IPv6 static routing, broadcast storm suppression, port mirroring, port priority QoS settings, and port aggregation functions.
- ▶ Fanless design, efficient wave-shaped aluminum alloy shell heat dissipation surface.
- ▶ Supports redundant DC 48-58V wide voltage and reverse polarity protection
- ▶ Wide temperature operation from -40°C to 80°C

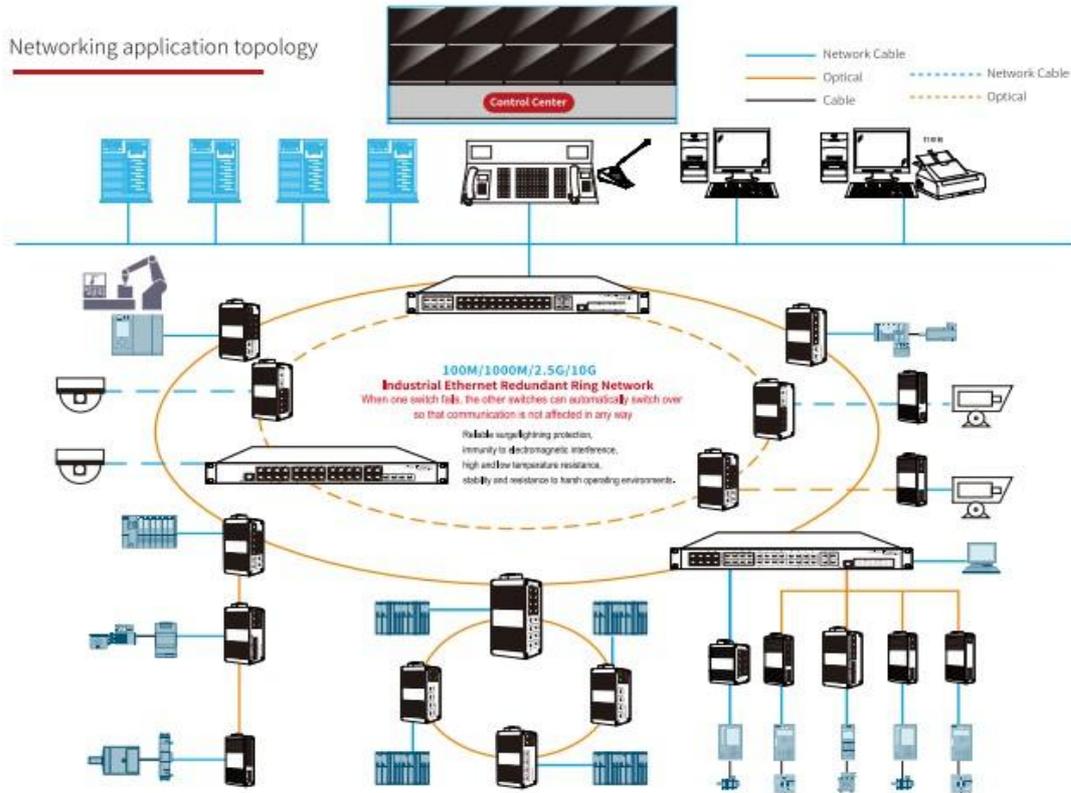


### Overview

8-Port 10/100/1000T 802.3at PoE + 8-Port 100/1000X SFP Industrial PoE Switch developed by UTP. This product is mainly developed for the application of point to point Networks, Star Networks, Tree Networks, chain networks, and ring networks in the industrial field. It supports Gigabit 8- 10/100/1000Base-T PoE and 8\*1G SFP, and has a redundant self-healing ring (recovery time<20ms) to realize single loop, tangent, and intersection loop protocols, support for broadcast storm suppression, port mirroring, port priority QoS settings, port aggregation functions.

The product has a high-performance industrial switch chip engine, with an IP40 protection level of the compact shell, the adoption of fan-free efficient heat dissipation design and corrugated aluminum alloy shell, with excellent surge protection and EMC protection performance, to make products work efficiently in harsh industrial environments. The compact size of the gigabit speed allows for fast rail installation in tight spaces. And it can provide a reliable and convenient solution for the users' Ethernet equipment networking.

## Application



## Specifications

<b>Product introduction</b>	
Model No.	20125697
Product description	8*10/100/1000Base-T PoE+8*1G SFP Gigabit L2 Management Industrial PoE Switch
<b>Ethernet interface</b>	
RJ45 Port	8-port 10/100/1000Base-T
Optical port	8-port 100/1000Base-X SFP
Port Description	8*10/100/1000Base-T, Support 8-port POE power supply (802.3 af/at) 8*100/1000Base-X SFP
<b>Power Parameters</b>	
Power	Connection: 1 removable 4-contact terminal block(s) Input voltage: DC48 to 58V redundant power support reverse connection protection
PoE Standard	Output Power : IEEE 802.3af maximum power 15.4W IEEE 802.3at maximum power 30W POE port automatically identifies af/at PoE power supply pin: corresponding pin V+ (1, 2) V- (3, 6)
LED Indicator	<ul style="list-style-type: none"> <li>● Power indicator light: Red P1, P2</li> <li>● Interface indicator light: Left of the RJ45: Yello (POE), Right: Green (Data light)</li> </ul>

	<ul style="list-style-type: none"> <li>● Optical port green Ulink/act indicator light</li> </ul>
<b>Standards</b>	
Network Protocols	IEEE802.3-10BaseT IEEE802.3u-100BaseTX/100Base-FX IEEE802.3x-Flow Control IEEE802.3z-1000BaseLX IEEE802.3ab-1000BaseT IEEE802.1ab IEEE802.1D-Spanning Tree Protocol IEEE802.1w-Rapid Spanning Tree Protocol, APS IEEE802.1Q -VLAN Tagging IEEE802.1p -Class of Service IEEE802.1X-Port Based Network Access Control IEEE802.3af PoE IEEE802.3at PoE Plus
L3 routing technology	<ul style="list-style-type: none"> <li>● Support IPv4/IPv6 static routing</li> <li>● Address Resolution Protocol (Static ARP)</li> <li>● Auto-configuration, static IPv6 address and prefix length, static IPv6 default gateway</li> <li>● IPv6 neighbor discovery (ND), IPv6 duplicate address detection, ICMPv6</li> <li>● HTTP/HTTPS, remote network, SSH, SNMP, TFTP</li> <li>● System log, PING, DHCPv6</li> </ul>
<b>Switch Properties</b>	
Packet forwarding rate	17.856Mpps
MAC Table Size	8K
Packet Buffer Size	4.1Mbit
Bandwidth	56G
Switching Delay	<5μs
Power Consume	<260W
<b>Function</b>	
Redundant Protocol	<ul style="list-style-type: none"> <li>● Support ERPS ring network technology, self-healing time &lt;20ms</li> <li>● Support STP/RSTP/MSTP</li> </ul>
Switch Function	<ul style="list-style-type: none"> <li>● 8K MAC address; static MAC address, filtered MAC address, dynamic MAC binding and other address table management functions;</li> <li>● MAC address automatic learning, automatic aging and aging time setting;</li> <li>● IEEE 802.1Q VLAN, users can flexibly divide VLAN according to needs;</li> <li>● QoS supports three priority modes based on port, 802.1P and DSCP and four queue scheduling algorithms: Equ, SP, WRR and SP+WRR;</li> <li>● ACL filters data packets by configuring matching rules, processing operations, and time permissions to provide flexible security access control strategies;</li> <li>● IGMP V1/V2 multicast protocol, IGMP Snooping, meets the needs of multi-terminal high-definition video surveillance and video conferencing access;</li> </ul>

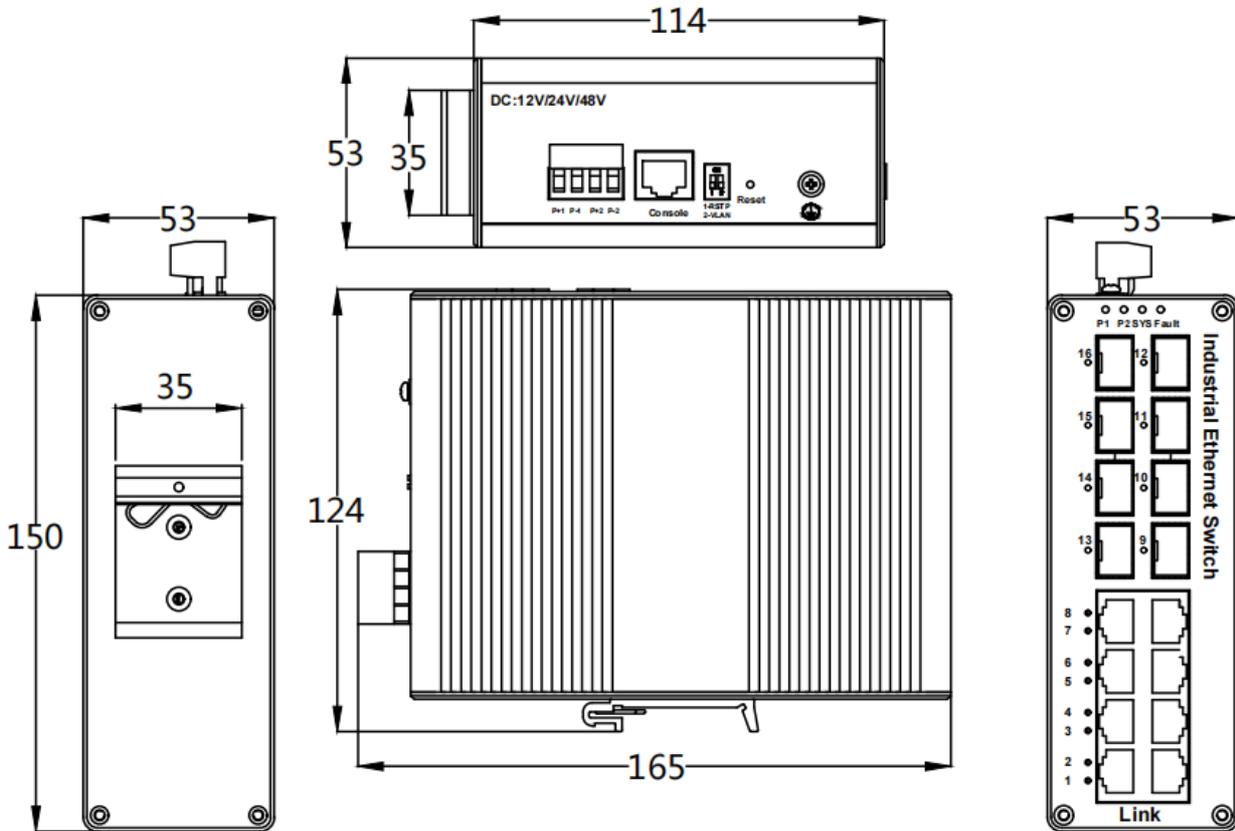
	<ul style="list-style-type: none"> <li>● 802.1X authentication, controlling the authorization status of the controlled port based on the authentication results;</li> <li>● Multicast VLAN; Voice VLAN;</li> <li>● Static convergence and dynamic convergence;</li> <li>● RMON, system logs, port traffic statistics;</li> <li>● Cable detection, Ping detection and Tracert detection operations;</li> <li>● LLDP; CPU monitoring, memory monitoring, Ping detection, Tracert detection, cable detection.</li> </ul>
Manage and maintain	<ul style="list-style-type: none"> <li>● CLI console, remote login (RFC854), 3 sessions</li> <li>● Supports web interface HTTP, supports SNMP (V1/N2/V3) management protocol</li> <li>● File management - firmware upgrade/backup, dual images, configuration download/backup, multiple configurations</li> <li>● Upload/Download - TFTP (RFC783), HTTP, UART</li> <li>● Support local and SNTP time management</li> <li>● Port Management - Friendly Port Name (Port Description) - Error Disable Recovery</li> <li>● Line management - console, remote login (RFC854), SSH v1/v2.</li> <li>● Supports DHCP client, DNS client, software reset button, IEEE (802.3az)</li> <li>● Supports 32 entries/type RMON management</li> <li>● Supports one-click ring network and one-click VIAN</li> </ul>
Safety technology	<ul style="list-style-type: none"> <li>● Support AAA authentication, 8 TACACS+, 8 radius</li> <li>● Support IEEE 802.1X authentication, MAC authentication, network authentication, guest VLAN, port-based, host-based</li> <li>● Support CLI SSH v1/v2</li> <li>● 256 dynamic lock port security</li> <li>● Storm control-broadcast, unknown multicast, unknown unicast</li> <li>● BPDU guard spanning tree</li> <li>● Supports local authentication, multiple user accounts, multi-level security (manager/operator), password recovery program</li> <li>● Management VLAN, management ACL; SSLv2, SSLv3, TLSv1; web interface HTTPS</li> <li>● Supports protected ports (port isolation), blackhole MAC, CPU defense engine, DoS prevention</li> <li>● DHCP snooping (using option 82), dynamic ARP inspection</li> <li>● 256 IP source protection, IP/MAC/Port Binding (IMPB), dynamic VLAN assignment</li> </ul>
<b>Physical Characteristics</b>	
Protection level	IP40
Enclosure	Wavy aluminum alloy
Installation	Push-in DIN rail
Weigh	0.7kg
Dimensions	150x114x53mm (length x width x height)
<b>Environmental Limits</b>	
Working temperature	-40 to 80°C (-40~176 °F)

Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
<b>Standards and Certifications</b>	
Safety	EN 62368-1(LVD)
EMI	FCC Part 15 Subpart B Class A, EN 55022 Class A
EMS	IEC(EN)61000-4-2(ESD):±8kV Contact discharge,±15kV Air discharge IEC(EN)61000-4-3(RS):10V/m(80~1000MHz) IEC(EN)61000-4-4(EFT): power line:±4kV; data line:±4kV IEC(EN)61000-4-5(Surge): power:±4kV CM/±2kV DM; data:±2kV IEC(EN)61000-4-6(RF conduction):3V(10kHz~150kHz),10V(150kHz~80MHz) IEC(EN)61000-4-16(Common mode conduction):30V cont. 300V,1s IEC(EN )61000-4-8
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
<b>MTBF</b>	
Time	300 000hrs
<b>Warranty</b>	
Warranty Period	5 years
<b>Package Contents</b>	
Device	1 x UF-MIS6808GP-SFP switch
Documentation	1 x quick installation guide 1 x warranty card

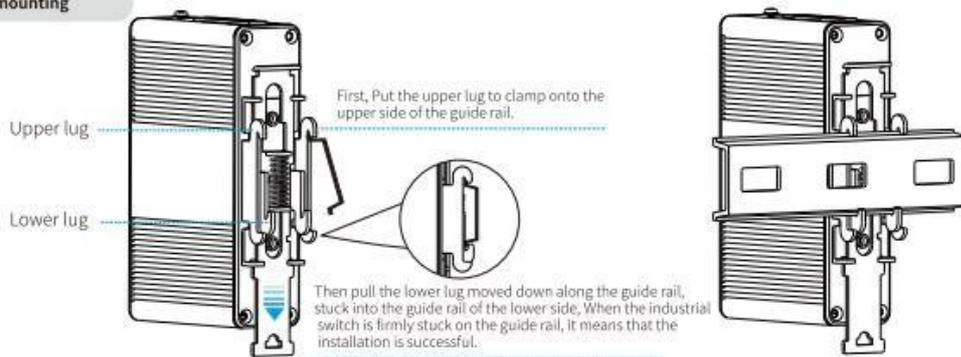
## Order Information

Model	Description
20125697	L2+ Industrial 8-Port 10/100/1000T 802.3at PoE + 8-Port 100/1000X SFP Managed Ethernet Switch, not including SFP module, standalone, Support DIN-Rail mounting installation, not including power supply adapter
SFP Options	<ul style="list-style-type: none"> <li>▶ SFP option. Please select your SFP on our SFP Options Page (Industrial SFP).</li> <li>▶ SFP module is to be purchased separately.</li> </ul>
Mounting Options	▶ Default DIN-Rail Bracket installed.
Power Options	<ul style="list-style-type: none"> <li>▶ DIN-Rail Power Supply. Open Wire for Terminal Block.</li> <li>▶ Power Supply is to be purchased separately.</li> </ul>

Dimension (Unit: mm)



### Pull-rail mounting



### Press-in rail mounting

