

Industrial 8-Port Gigabit PoE+ 4-Port SFP L2 Managed Ethernet Switch

Overview

UTP6312S-PSB is Industrial 8-Port Gigabit PoE+ 4-Port SFP L2 Managed Ethernet Switch.

This switch provides 8 Gigabit Ethernet RJ-45 ports and 4 Gigabit SFP uplink ports. It meets IEEE 802.3af/at standard. All RJ-45 ports support Power-over-Ethernet (PoE+) and deliver up to 30W power per port.

The switch has extensive L2 management functions, such as 802.1Q VLAN, 802.1P QoS, STP/RSTP, Link aggregation, DHCP and PoE control. It can be easily managed via a WEB GUI (http/https), CLI (telnet/ssh/console) or SNMP.

Features and Highlights

Abundant Interfaces

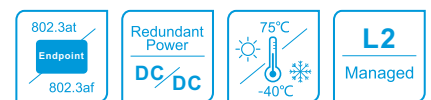
- 8*10/100/1000 Base-T PoE RJ-45 ports
- 4*1000 Base-X SFP ports
- 1*RJ-45 console port

Industrial Design

- Working temperature: -40°C~75°C
- Redundant power supply
- 8kV contact discharge, 12kV air discharge ESD protection
- Fan-less metal shell design
- DIN-rail installation

Layer 2 Management Function

- 802.1Q VLAN
- 802.1P QoS
- SNMP
- STP/RSTP
- ERPS
- DHCP snooping



Specifications

Items	UTP6312S-PSB
Hardware Specifications	
Downlink Ports	8*10/100/1000Base-T PoE+ RJ-45
Uplink Ports	4*100/1000Base-X SFP
Console Port	1*RJ-45 console port
Init Button	Short press to restart the switch, long press >5s to initialise the system
Led Indicators	2* power supply indicators, 1* system working indicator
Cable	Cat5 or better
Dimensions (W*D*H)	176mm*136mm*46.5mm
Net Weight	0.9kg
Input Voltage	Support redundant power supply, Power 1 (Main): 48~57V DC, Power 2 (Backup): 48~57V DC
Power Consumption	≤10W (Full load, not include PoE)
Installation	DIN-rail
Material	Metal shell
Switch Property	
Forwarding Modes	Store and Forward
Switching Capacity	24Gbps / non-blocking
Packet Forwarding Rate	17.9Mpps
MAC Table	8k, supported auto learning
Packet Buffer	4Mbit
Jumbo Frame	9kB
PoE	
PoE Device	Endpoint PSE
PoE Standard	IEEE 802.3af/at
PoE Pin Assignment	1/2(+), 3/6(-)
PoE Power Output	46~55V DC
PoE Budget	30W max for each port, 240W max for whole switch
Standard Conformance	
Standards Compliance	IEEE 802.1p Priority Queuing IEEE 802.1Q VLAN tagging IEEE 802.1D Spanning Tree Algorithm IEEE 802.1w Rapid Spanning Tree IEEE 802.1x Authentication IEEE 802.3ad Link Aggregation IEEE 802.3x Flow Control IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3z Gigabit Ethernet IEEE 802.3af Power Over Ethernet IEEE 802.3at Power Over Ethernet
EMC	
EMC	FCC 47 CFR Part 15 Class A EN55032 Class A IEC61000-4-2, Level 3: Contact Discharge: ±8kV, Air Discharge: ±12kV IEC61000-4-3, Level 3: 10V/m IEC61000-4-4, Level 2: Power Port: ±4kV; Data Port: ±2kV IEC61000-4-5, Power Port: Line to Line ±2kV, Line to Earth ±4kV; Data Port: ±2kV IEC61000-4-6, 3V (10kHz-150kHz); 10V (150kHz-80MHz)
LVD	
LVD	EN 62368-1:2014 EN 62328-A11:2017
Environments	
Operating	Temperature: -40°C~75°C Relative Humidity: 5%~95% (Non-condensation)
Storage	Temperature: -40°C~85°C Relative Humidity: 5%~95% (Non-condensation)
Certifications	
Certifications	CE, FCC

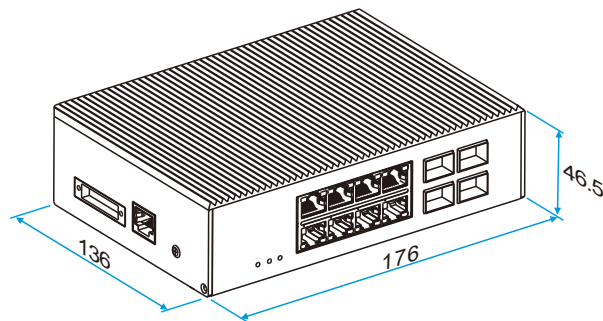
Software Architecture

UTP6312S-PSB			
Information and Status		Advanced Configure	
System Information	• System, Hardware, Time and Firmware	Port Isolation	• Port Group and Port Isolation
IP Status	• IP Interfaces, IP Routes and ARP Table	Loop Protection	• General Settings and Port Configuration
SysLog	• System Log Information	Spanning Tree	• Bridge Settings, MSTI Mapping, MSTI Priorities, CIST Ports and MSTI Ports
Detailed SysLog	• ID and Message	IPMC Profile	• Profile Table and Address Entry
MAC Table	• MAC Address Table: Type, VLAN, MAC Address, CPU and Port Number	MEP	• Maintenance Entity Point
VLANs	• Membership and Ports	ERPS	• Ethernet Rapid Ring Protection Switching
Ports	• Traffic Overview and Detailed Statistics	IGMP Snooping	• Basic Configuration, VLAN Configuration and Port Filtering Profile
LACP	• System Status, Port Status and Port Statistics	IPv6 MLD Snooping	• Basic Configuration, VLAN Configuration and Port Filtering Profile
Thermal Protection	• Thermal Protection Port Status	LLDP	• LLDP Parameters and LLDP Interface Configuration
Green Ethernet	• Port Power Savings Status	Security Configure	
PoE Status	• Power Over Ethernet Status	Users	• Users Configuration
LLDP	• Neighbors, PoE, Port Statistics	Privilege Levels	• Privilege Level Configuration
Loop Protection	• Loop Protection Status	SSH	• SSH Configuration
Spanning Tree	• Bridge Status, Port Status and Port Statistics	HTTPS	• HTTPS Configuration
IGMP Snooping	• IGMP Snooping Status, Groups Information and IPv4 SFM Information	Port Security Limit	• System and Port Configuration
MLD Snooping	• MLD Snooping Status, Groups Information and IPv6 SFM Information	Access Management	• Access Management Configuration
DHCP	• Server, Snooping Table, Relay Statistics and Detailed Statistics	802.1X	• Network Access Server Configuration
Security	• Port Security, Access Management Statistics, 802.1X, ACL Status and AAA	ACL	• Ports, Rate Limiters and Access Control List
QoS	• QoS Statistics and QCL Status	DHCP	• Snooping Setting, Snooping Table, Relay, Relay Statistics and Detailed Statistics
Network Admin		IP&MAC Source Guard	• IP Source Guard Configuration, Static Table and Dynamic Table
IP Config	• IP Configuration, IP Interfaces and IP Routes	ARP Inspection	• Port Configuration, VLAN Configuration, Static Table and Dynamic Table
IP Status	• IP Interfaces, IP Routes and ARP Table	AAA	• RADIUS and TACACS+
DHCP Server	• DHCP Server Mode Configuration, Excluded IP and Pool	QoS Configure	
NTP	• NTP Configuration	Port Classification	• QoS Ingress Port Classification
Timezone	• System Timezone Offset and UTC time	Port Policing	• QoS Ingress Port Policers
SNMP	• System, Trap, Communities, Users, Groups, Views and Access	Queue Policing	• QoS Ingress Queue Policers
SysLog	• System Log Configuration	Port Scheduler	• QoS Egress Port Schedulers
Port Configure		Port Shaping	• QoS Egress Port Shapers
Ports	• Port Configuration	Port Tag Remarking	• QoS Egress Port Tag Remarking
Aggregation	• Static and LACP	Port DSCP	• QoS Port DSCP Configuration
Mirroring	• Mirror and Mirror Port Configuration	DSCP-Based QoS	• DSCP-Based QoS Ingress Classification
Thermal Protection	• Thermal Protection Configuration	DSCP Translation	• DSCP Translation
Green Ethernet	• Port Power Savings and Port Configuration	DSCP Classification	• DSCP Classification
DDM	• DDM Configuration, DDM Overview and DDM Detailed	QoS Control List	• QoS Control List Configuration
PoE		Storm Policing	• Global Storm Policer Configuration
PoE Setting	• Power Over Ethernet, PoE Power Supply and PoE Port Configuration	Diagnostics	
PoE Status	• Power Over Ethernet Status	Ping	• ICMP Ping
Advanced Configure		Cable Diagnostics	• VeriPHY Cable Diagnostics
MAC Table	• Aging Configuration, MAC Table Learning and Static MAC Table Configuration	CPU Load	• CPU Load Information
PTP	• PTP Clock Configuration and PTP Status	Maintenance	
VLANs	• Global VLAN and Port VLAN Configuration	Restart Device	• Restart the Device
Voice VLAN	• Voice VLAN Configuration and Voice VLAN OUI Table	Factory Defaults	• Factory Defaults
GVRP	• GVRP Global and Port Configuration	Firmware Upgrade	• Software Upload
		Firmware Select	• Software Image Selection
		Configuration	• Download, Upload, Activate and Delete

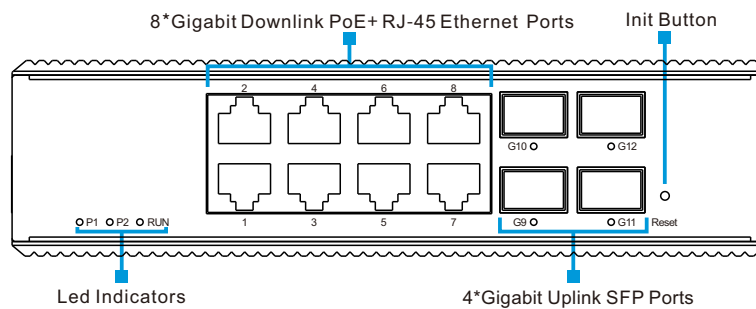
Appearances and Dimensions

UTP6312S-PSB

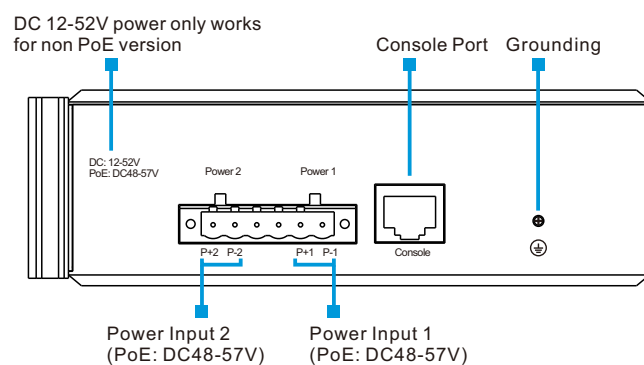
Dimensions (mm)



Front Panel



Side Panel



Packing List

Welcome to order our products. After purchasing, you will receive:

Items	Quantity
Switch	1 set
Plug Connector	1 pc
Quick Installation Guide	1 pc

Related Products

Model	Description
GM152-5450268-F	150W Power Adapter
NDR-120-48	120W DIN-rail Power Supply
NDR-240-48	240W DIN-rail Power Supply
SFP-1.25G-550M	Gigabit Multimode Dual Fiber 550m SFP Optical Module
SFP-1.25G-20KM-TX/RX	Gigabit Single Mode Single Fiber 20km SFP Optical Module TX/RX

More Information

For more information, please visit:

www.utepo.net