

# Switches

Manageable Switches for campus & SME applications

## Introduction

The ESW switch family offers a complete set of advanced software features that easily satisfy the demands of enterprises and SMBs everywhere. With cost effective, high-performance security switching, users are able to discover the benefits of a high-port density, reliable and superior performance enterprise network. The Switch family consists of 6 different models with and without PoE+ from 10 to 52 ports, addressing different demands and use cases. All switches provide an excellent L2+ feature set with additional and frequently used Layer 3 features and are manageable via the Web interface, CLI interface or SNMP.

## Interfaces

Up to 52 Ethernet 1000 Mbps ports	Yes (depends on model)
Up to 2 SFP ports	Yes (depends on model)
Up to 2 combo ports	Yes (depends on model)
Serial console port	Yes
PoE+ with up to 375 W power budget	Yes

## Destacar

- Manageable L2+ Switch family
- Scalable from 12 to 52 ports
- Power budget up to 375 Watt
- Layer 2 feature set
- Many frequently used Layer 3 features
- 5 years warranty



## Competitive Advantage

Advanced Layer 2 Switching	The Teldat ESW4000 switches are powerful L2+ switches for multiple SME and enterprise applications.
PoE for easy LAN power supply	The switch models with PoE+ can directly power Wi-Fi 6 access points, IP phones and other equipment via the LAN connection.
Flexible WAN connection	The Gigabit SFP ports make the connection to the WAN easy in larger buildings.
Reliable and environment friendly	High reliable hardware design allows resilient network connectivity, 5 years warranty and saves investments as well as environment.

## Key Features

- **Versatile Layer 2 / 3 features set** L2 features for efficient management of functions like link aggregation, load balancing and fault tolerance; L3 features to manage performance for cost-effective implementation in business applications.
- **Power budget** Web management; CLI via console port or Telnet; SNMP v1, v2c, v3.
- **Additional layer 3 features** The integration of frequently required Layer 3 functions rounds off the performance spectrum of the switch and enables the cost-effective implementation of professional applications.
- **Management** Some models include PoE+ ports with a total power budget of up to 375 watts for powering IP phones, Wi-Fi 5/Wi-Fi 6 access points, cameras and other equipment.

## CARACTERÍSTICA TÉCNICA DEL HARDWARE

### LAN and WAN Ports

ESW4000-12PH/12T: 8 Gigabit ETH ports, 2 SFP ports, 2 combo ports  
ESW4000-28P/28T: 24 Gigabit ETH ports, 4 SFP ports  
ESW4000-52P/52T: 48 Gigabit ETH ports, 4 SFP ports

### Performance values

ESW4000-12PH/12T: Switch Capacity 24Gbps; Forward rate 17.8 Mpps  
ESW4000-28P/28T: Switch Capacity 56Gbps; Forward rate 41.7 Mpps  
ESW4000-52P/52T: Switch Capacity 104 Gbps; Forward rate 77.4 Mpps

### Dimension/Weight

ESW4000-12PH: Dimension 28x22x4.4 cm (W x D x H); Weight: 2.4 kg  
ESW4000-12T: Dimension 18x16,4x3.75 cm (W x D x H); Weight: 0.8 kg  
ESW4000-28P/52P: Dimension 44x33x4.4 cm (W x D x H); Weight 3.9 - 4.4 kg

## CARACTERÍSTICA TÉCNICA DEL SOFTWARE

### Layer 2 functionality (1)

IEEE 802.1D; 802.1w; 802.1s; BPDU Guard; BPDU Filtering; Root Guard;  
BPDU Transparent; (None) Loopback detection; 4K VLAN; Port-based  
VLAN;  
IEEE 802.1Q VLAN; GVRP (256 VLAN); IEEE 802.1v; protocol-based  
VLAN;

### Layer 3 functionality

DHCP: Up to 8 DHCP server; DHCP client; DHCP relay  
Static routes: Up to 512 static routing entries

### IP routing

RIP support; RIP v1/v2; Traceroute/Traceroute

### OAM

IEEE 802.3ah Link; IEEE 802.1ag: Cross check; Link trace; Loop back  
ITU-T Y.1731: Performance and Throughput Management

### Security (2)

IPv6 ACL; Port security; PPPoE IA; Dynamic ARP inspection; CPU guard;  
CPU/Memory threshold + alarm; DOS protection; Login Security;  
RADIUS; TACACS+ (authentication/accounting/authorization)

## CARACTERÍSTICA TÉCNICAS ADICIONALES

### Energy Saving functions

Green Ethernet: 802.3az-compliant Energy-Efficient Ethernet  
Cable length detection: Reduce power usage for short Ethernet cables  
No-Link detection: Automatically switches off unused ports to save energy

### Warranty

5-year warranty

### PoE capabilities

ESW4000-12T/28T/52T: None  
ESW4000-12PH: PoE+ for 8 ports, Ultra PoE 60W, 180W power budget  
ESW4000-28P: PoE+ for 24 Ports, 190W Power budget

### Power supply

100-240 VAC, 50-60Hz integrated PSU with front plug  
None PoE: Max. 16-40 watts (depending on the model)  
With Poe: Max 230 - 480 watts (depending on the model)

### Approvals

EN60950-1; EN61000-3-2; EN61000-3-3; EN61000-4-2; EN61000-4-3;  
EN61000-4-4; EN61000-4-5; EN61000-4-6; EN61000-4-8;  
EN61000-4-11; EN55032; EN55024

### Layer 2 functionality (2)

L2 Virtual Private Network (Q-in-Q): Static Trunk; Load Balancing;  
IEEE 802.3ad Link Aggregation; Trunk groups 16 up to 8 GE ports per  
group;  
IGMP v1/v2/v3 Snooping; IGMP Proxy; IGMP Filtering; Multicast VLAN

### Quality of service (QoS)

8 hardware queues per port; IEEE 802.1p CoS; IP; Precedence; DSCP  
Traffic scheduling: Strict Priority; Weighted Round Robin; Strict+WRR  
Diffserv: Ingress/Egress policy map (police rate, remark CoS/DSCP)

### IPv4/IPv6 dual protocol stack

IPv6 Address type stack: Unicast;  
IPv6 Neighbor Discovery: Duplicate address; Address resolution  
IPv6 configuration: Stateless auto-configuration; Manual configuration

### Security (1)

IEEE 802.1X port-based + MAC-based authentication; Dynamic VLAN  
assignment  
Dynamic QoS assignment; MAC auth; Web auth; Voice VLAN; Guest  
VLAN  
Security: L2/L3/L4 Access; MAC Access; IP Access (Source IP); control  
lists

### Switch Management

Web management; CLI via console port or Telnet; SNMP v1, v2c, v3  
Configuration file up/download via TFTP/HTTP/FTP/SFTP; Firmware  
update via  
TFTP/HTTP/FTP/SFTP; Dual images; Firmware auto update; Monitoring:  
sFlow v4

### Open Source

Based on Open-Source software  
More details can be found in the download area of the product

### Content of delivery

Power supply cable with EU-plug;  
19" mounting kit with 2 brackets and 8 screws;  
4 foot pads; Adaptor cable RJ45->DB9 for console port;



Scenarios

Ficha técnica Switches



Founded in 1985, Teldat is a Spanish company whose mission is to provide companies with valuable solutions for cloud access, remote office communications, cyberse-curity and voice/data connectivity both in the office and in specific environments whether they are industrial, railway, vehicles or public services.

Website: [www.teldat.com](http://www.teldat.com)

Teldat Group

SPAIN  
Calle Isaac Newton, 10  
Tres Cantos - 28760  
Madrid (Spain)  
Phone:+34 91 807 6565  
[info@teldat.com](mailto:info@teldat.com)

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