

# 19"/2® ESW2120 Series



## Layer 3 Switch

The 19"/2 ESW2120 Series presents a wide range of rugged, fanless, small form-factor switches that are ideal for space-constrained deployments.

When you need a small and powerful switch, the ESW2120 Series is ideal. The ESW2120 series is Cisco based and supports up to 16-ports, as well as layer 2 and layer 3 switching. It is a very versatile switch series with a lot of different configuration options such as 10 Gbps uplinks, PoE capabilities and support for several different fiber types.

## Flexible Mounting

All 19"/2 units can be mounted together in several different ways:

- One 19"/2 unit can be mounted in a 19" rack
- Two 19"/2 units can be mounted together in a 19" rack
- Two or more devices can also be stacked on top of each other

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Technical Specification	
Description	Layer 3 Switch based on the Cisco 3560-CX Switch
Type	Nonblocking line-rate switches
Cisco IOS support	IP Base or IP Services (upgrade option)
Flash	128 MB
Memory DRAM	512 MB
Max VLANs	1023
Forwarding Rate (64 Byte Packet)	23.8 mpps / 50.6 mpps (10Gbit version)
Forwarding Bandwidth	16 Gbps / 34 Gbps (10Gbit version)
Switching BW (full duplex capacity)	32 Gbps / 68 Gbps (10Gbit version)
Routing support	Enterprise Access L3 (IP Base) / Complete Access L3 (IP Services)
Management and Operations	LACP, DHCP, MVR, Voice LAN, VTP, RSPAN, RMON, Cisco Instant Access Mode (only 10Gbit version).
Traffic Management and QoS	<ul style="list-style-type: none"> <li>- Up to eight egress queues per port and strict priority queuing.</li> <li>- Shaped Round Robin (SRR)</li> <li>- Weighted Tail Drop (WTD)</li> <li>- Flow-based rate limiting</li> <li>- Up to 256 aggregate or individual policers per port.</li> <li>- NetFlow Lite</li> </ul>
Security	Cisco TrustSec SXP, 802x1x, IEEE 802.1AE MACsec, Private VLAN, SSH, Kerberos, SNMPv3, ACL, Secure Boot, etc.
Option	- PoE+ - 1 or 10GE Fiber SM/MM
Power input	12-32V DC
MTBF	107258h (Ground Benign / ESW2122)
Transient power protection	Designed to meet MIL-STD-1275D
Case	Aluminium
Dimensions	220x400x44 mm (W x D x H)
Weight	TBD
Certification	Designed to meet IP65, MIL-STD-810F, MIL-STD-461F and MIL-STD-1275D
Other	No fans

## Designed to meet:

MIL-STD-810G	Operating	Storage
Altitude Method 500.5, (procedure II,III)	4572 m (15000 ft)	Rapid decompression 12192 m (40000 ft)
Humidity Method 507.5 (procedure II)	Aggregated, 95% RH duration 5 days	-
Shock Method 516.6, (procedure I, IV)	40 G, 11 ms (Terminal-peak saw tooth shock pulse)	122 cm (26 drops)*
Salt fog Method 509.5, (Procedure I)	4 x 24 hrs	-
Temperature Method 501.5 & Method 502.5, (procedure I, II)	-20°C** to 55°C (with full PoE load) -20°C to 65°C ** (without PoE)	-40 °C to 71 °C
Temperature shock Method 503.5 (procedure I)	-20 °C to 55°C	-
Vibration Method 514.6		
- Category 14	✓	-
- Category 20 a & b	✓	-

\* Only with optional Peli Case

\*\* -40°C to + 71°C (w/o. PoE) with extend temperature option

## Designed to meet:

MIL-STD-461F	Limitation	Threshold
EMI radiated Method RE102	10 kHz to 18 GHz	Navy Mobile & Army
EMI radiated Method RS103	2 MHz to 1 GHz	Army
EMI conducted Method CE102	10 kHz to 10 MHz	Basic Curve
EMI conducted Method CS101	30Hz to 150 kHz	Curve #1
EMI conducted Method CS114	10 kHz to 200 MHz	Army
EMI conducted Method CS115	Tested according to standard	Army
EMI conducted Method CS116	10 kHz to 100 MHz	Army



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## ESW2120 Series Product line

Variant	Interfaces front	Interfaces back	Available PoE Power	Power Consumption
ESW2121	6x LAN RJ45 Copper w. PoE, (10/100/1000 Mbps) 2 x LAN Fiber Tyco PRO BEAM® mini Single Mode (10Gbps, 1310 nm) 1x System Button 1 x DC in, 12-32V	6x LAN RJ45 Copper w. PoE (10/100/1000 Mbps) 2x LAN RJ45 Copper w/o PoE (10/100/1000 Mbps) 1x Service port 1x Earth bonding point	124W (19-32VDC) 60 W (12-18VDC)	TBD
ESW2122	6x LAN RJ45 Copper w. PoE (10/100/1000 Mbps) 2 x LAN Fiber Tyco PRO BEAM® mini Single Mode (1Gbps, 1310 nm) 1x System Button 1x DC in 12-32V	6x LAN RJ45 Copper w. PoE (10/100/1000 Mbps) 2x LAN RJ45 Copper w/o PoE (10/100/1000 Mbps) 1x Service port 1x Earth bonding point	124W (19-32VDC) 60 W (12-18VDC)	<u>Min/Typ/Max</u> 22W/26W/28W  <u>Typ/Max PoE:</u> <u>79W/176W</u>
ESW2123	6x LAN RJ45 Copper (10/100/1000 Mbps) 2 x LAN Fiber Tyco PRO BEAM® mini Single Mode (1Gbps, 1310 nm) 1x System Button 1x DC in 12-32V	8x LAN RJ45 Copper, (10/100/1000 Mbps) 1x Service port 1x Earth bonding point	N/A	TBD
ESW2124	10x LAN RJ45 Copper w. PoE (10/100/1000 Mbps) 1x System Button 1x DC in 12-32V	2x LAN RJ45 Copper w. PoE (10/100/1000 Mbps) 2x LAN RJ45 Copper w/o PoE (10/100/1000 Mbps) 1x Service port 1x Earth bonding point	124W (19-32VDC) 60 W (12-18VDC)	TBD
ESW2125	10x LAN RJ45 Copper, (10/100/1000 Mbps) 1x System Button 1x DC in 12-32V	4x LAN RJ45 (10/100/1000 Mbps) 1x Service port 1x Earth bonding point	N/A	<u>Min/Typ/Max</u> 18W/22W/24W
ESW2126	6x LAN RJ45 Copper w. PoE (10/100/1000 Mbps) 2 x LAN Fiber Tyco PRO BEAM® mini Multi Mode (10Gbps, 850 nm) 1x System Button 1x DC in 12-32V	6x LAN RJ45 Copper w. PoE (10/100/1000 Mbps) 2x LAN RJ45 Copper w/o PoE (10/100/1000 Mbps) 1x Service port 1x Earth bonding point	124W (19-32VDC) 60 W (12-18VDC)	TBD
ESW2127	6x LAN RJ45 Copper w. PoE (10/100/1000 Mbps) 2 x LAN Fiber Tyco PRO BEAM® mini Multi Mode (1Gbps, 850 nm) 1x System Button 1x DC in 12-32V	6x LAN RJ45 Copper w. PoE (10/100/1000 Mbps) 2x LAN RJ45 Copper w/o PoE (10/100/1000 Mbps) 1x Service port 1x Earth bonding point	124W (19-32VDC) 60 W (12-18VDC)	<u>Min/Typ/Max</u> 22W/26W/28W  <u>Typ/Max PoE:</u> <u>79W/176W</u>
ESW2128	6x LAN RJ45 Copper (10/100/1000 Mbps) 2 x LAN Fiber Tyco PRO BEAM® mini Multi Mode (1Gbps, 850 nm) 1x System Button 1x DC in 12-32V	8x LAN RJ45 Copper (10/100/1000 Mbps) 1x Service port 1x Earth bonding point	N/A	TBD

