

19"/2[®] ESW2140 Series



Layer 3 Switch

The 19"/2 ESW2100 Series presents a wide range of Cisco based, rugged, small form-factor switches that are ideal for space-constrained deployments in demanding environments.

19"/2[®] ESW2140 series comes with circular mighty mouse connectors for the Ethernet interfaces . The unit can be delivered with either IP Base or IP Services software and supports full layer 2 and layer 3 switching.

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"> - Up to eight egress queues per port and strict priority queuing. - Shaped Round Robin (SRR) - Weighted Tail Drop (WTD) - Flow-based rate limiting - Up to 256 aggregate or individual policers per port. - NetFlow Lite |
| Security | Cisco TrustSec SXP, 802x1x, IEEE 802.1AE MACsec, Private VLAN, SSH, Kerberos, SNMPv3, ACL, Secure Boot, etc. |
| Option | - PoE+ |
| 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) | Aggravated, 10 x 24 h cycles 95%RH | - |
| 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) | -40°C** to 55°C (with full PoE load) -40°C to 65°C ** (without PoE) | -40 °C to 71 °C |
| Temperature shock Method 503.5 (procedure I) | -40 °C to 55°C | - |
| Vibration Method 514.6 (procedure I) | | |
| - Category 2 | - | √ |
| - 14 Helicopter | √ | - |
| - 20 Tracked vehicles | √ | - |
| - 20 Wheeled vehicles | √ | - |

* 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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ESW2140 Series Product line

| Variant | Interfaces front | Interfaces back | Available PoE Power | Power Consumption |
|---------|---|---|------------------------------------|-----------------------------------|
| ESW2144 | 10x LAN Mighty Mouse Copper w. PoE+ (10/100/1000 Mbps) 1x System Button 1x DC in 12-32V | 2x LAN Mighty Mouse 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 |
| ESW2145 | 10x LAN Mighty Mouse Copper (10/100/1000 Mbps) 1x System Button 1x DC in 12-32V | 4x LAN Mighty Mouse Copper (10/100/1000 Mbps) 1x Service port 1x Earth bonding point | N/A | <u>Min/Typ/Max</u> 18W/22W/24W |

