

# Enterprise Campus Switch Core

## ECS-Core

Datasheet

### ^ Overview

|                |                                                                                             |
|----------------|---------------------------------------------------------------------------------------------|
| Dimensions     | 442.4 x 43.7 x 480 mm<br>(17.4 x 1.7 x 18.9")                                               |
| Port Layout    |                                                                                             |
| 1 GbE RJ45     | 1<br>(1G/100M/10M) ⓘ                                                                        |
| 100G QSFP28    | 32<br>(100G/40G) ⓘ                                                                          |
| Console        | 1                                                                                           |
| Redundancy     | Multi-Chassis Link Aggregation (MC-LAG)<br>(2) Hot-Swappable PSUs<br>(5) Hot-Swappable Fans |
| Layer 3        | ✓                                                                                           |
| Form Factor    | Rack Mount (1U, Full-Depth) ⓘ                                                               |
| Etherlighting™ | ✓                                                                                           |

### ^ Performance

|                               |          |
|-------------------------------|----------|
| Switching Capacity            | 6.4 Tbps |
| Total Non-Blocking Throughput | 3.2 Tbps |
| Forwarding Rate               | 2.8 Bpps |
| Supported VLANs               | 1,000    |
| MAC Address Table Size        | 128,000  |
| IPv4 Static Routes            | 256      |
| Packet Buffer Size            | 24 MB    |

## Access Lists

IPv4 512

MAC 512

### ^ **Layer 3 Features**

DHCP Server (Local Networks) ✓

DHCP Relay ✓

Inter-VLAN Routing (Local Networks) ✓

Static Routing (Local Networks) ✓

### ^ **Layer 2 Features**

LACP Port Aggregation ✓

MC-LAG ✓ ⓘ

STP & RSTP ✓

Advanced IGMP Configuration (Querier,  
Fast Leave, Router Port) ✓

IGMP Snooping ✓

MAC-Based ACLs & Device Isolation ✓

DHCP Snooping & Guarding ✓

Egress Rate Limit ✓

Flow Control ✓

MAC Address Blocking ✓

IP-Based ACLs & Network Isolation ✓

MAC-Based Port Restriction ✓

Port Isolation ✓

Port Mirroring ✓

Jumbo Frames ✓

LLDP-MED ✓

Voice VLAN ✓

Loop Protection ✓

### ^ **Hardware**

|                               |                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------|
| Max. Power Consumption        | 360W                                                                                     |
| Power Method                  | (2) Universal input, 100–240V AC, 50/60 Hz                                               |
| Power Input Method            | (2) AC input, Hot-swappable power modules                                                |
| Power Supply                  | (2) Hot-swappable AC/DC 550W power modules                                               |
| Supported Voltage Range       | 100–240V AC                                                                              |
| Management                    | Ethernet<br>AR<br>Serial Console                                                         |
| Heat Dissipation              | 1,228 BTU/hr                                                                             |
| Weight                        | Without mounting brackets: 9.7 kg (21.4 lb)<br>With mounting brackets: 9.8 kg (21.6 lb)  |
| Enclosure Material            | SGCC steel                                                                               |
| Mount Material                | SGCC steel                                                                               |
| Supported Rack Depth          | 482.6 mm (19") four-post racks<br>Posts depths ranging from 650 to 1,000 mm (25.6–39.4") |
| LCM Display                   | 1.3" touchscreen                                                                         |
| Fan Method                    | (5) Hot-swappable fan modules                                                            |
| ESD Protection                | Air: $\pm 12\text{KV}$ ; contact: $\pm 8\text{KV}$                                       |
| Ambient Operating Temperature | -5 to 40° C (23 to 104° F)                                                               |
| Ambient Operating Humidity    | 10 to 90% noncondensing                                                                  |
| Etherlighting™                |                                                                                          |
| QSFP28                        | ✓                                                                                        |
| LEDs                          |                                                                                          |
| Ethernet                      | ✓                                                                                        |
| PSU                           | ✓                                                                                        |
| Fan                           | ✓                                                                                        |
| NDAA Compliant                | ✓                                                                                        |
| Certifications                | CE, FCC, IC                                                                              |

## ^ **Software**

### Application Requirements

|               |                            |
|---------------|----------------------------|
| UniFi Network | Version 10.6.101 and later |
|---------------|----------------------------|