

# Software-Defined Data Plane (SDDP) 48 Port Dual SC PSU, front to back airflow



**Part Number:  
1LAN-SDDP-48P**

The SDDP provides high-performance, availability, and network-scaling. It can be deployed as a Top-of-Rack (ToR) switch as well as an Aggregation Switch (AGG) forming a non-blocking data fabric. In addition SDDP options are available supporting PoE and edge access requirements.

## Features and Benefits

Provides high-performance, availability, and network-scaling demands in today's enterprise

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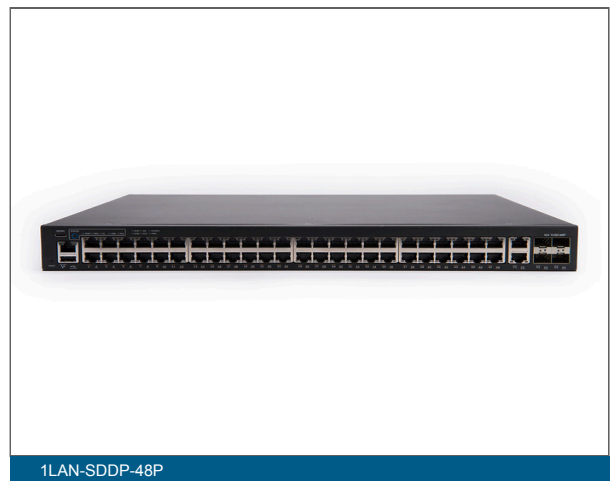
Deployed as a Top-of-Rack switch forming a non-blocking data fabric

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Full line forwarding rate of 1.28 Tbps

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Port grouping into one 40G port



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## Specifications

### Physical/Mechanical

|                               |   |
|-------------------------------|---|
| Airflow and FAN               | Front-to-Back or Back-to-Front, 3+1 redundant FAN FRU |
| LED Indicators                | Power , Status , Fan , PSU , Link status              |
| Mounting/Installation Options | Rack Mount  |

### Power

|               |   |
|---------------|---|
| Input Voltage | AC: 100V-240V~, 8-4A, 50Hz-60Hz , DC: 180V~310V |
| Power Supply  | 1+1 Redundant 550W AC/DC PSU FRU                |

### Hardware

|                        |  |
|------------------------|--|
| CPU                    | Rangley C2558 2.4G 4-Core  |
| Ports                  | 1x 10/100/1000BaseT Out-of-Band-Management Port , 1 x Mini USB serial console port with mini-USB to RJ-45 converter cable , 1 x USB 2.0 host , 48 x 10G SFP+ , 6 x 40G QSFP+ |
| Switch ASICS           | Broadcom BCM56854 (Trident 2)  |
| System Memory          | DDR3 8GB with ECC SODIMM   |
| Transceivers Supported | CR , CR4 , SR , SR4  |

### Performance

|                      |                   |
|----------------------|-------------------|
| Flash Memory         | 16                |
| Latency              | < 0.7 microsecond |
| Packet Buffer Memory | 12 MB             |
| Switching Capacity   | 1440              |

### Environmental Conditions

|                              |                                  |
|------------------------------|----------------------------------|
| Temperature Range, Operation | 0 °C to 45 °C (32 °F to 113 °F ) |
|------------------------------|----------------------------------|

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## Environmental Conditions

|                              |                            |
|------------------------------|----------------------------|
| Relative Humidity, Operation | 5% to 95% (non-condensing) |
|------------------------------|----------------------------|

## Optical Characteristics

|                  |                     |
|------------------|---------------------|
| Transceiver Type | CR , CR4 , SR , SR4 |
|------------------|---------------------|

## Dimensions

|        |     |
|--------|-----|
| Height | 44  |
| Width  | 440 |
| Depth  | 407 |

## Ordering Information

|                    |      |
|--------------------|------|
| Weight             | 9 kg |
| Units per Delivery | 1/1  |

## Standards

|           |  |
|-----------|--|
| Standards | CB - Emissions , CCC - Emission , FCC - Emission , RoHS6 |
|-----------|--|



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