

CE7855-32Q-EI Datasheet



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Overview

Huawei CloudEngine 7800 Series (CE7800 for short) switches are next-generation 40G Ethernet switches designed for high-end data centers and campus networks, providing high-density, high-performance 40GE ports with low latency. The CE7800 has an advanced hardware architecture with QSFP+ 40GE ports. Using the Huawei VRP8 software platform, the CE7800 switches offer extended data center service functionality and high stack capacity.



Specification

CE7855-32Q-EI Specification	
Physical specifications	Dimensions (W x D x H): 442.0 mm x 607.0 mm x 43.6 mm (17.4 in. x 23.9 in. x 1.72 in.) Weight (with two power modules and two fan modules, calculated based on the heaviest model if multiple models are supported): 11.2 kg (24.69 lb)
Temperature	- Operating temperature: 0°C to 40°C (32°F to 104°F) at altitude of 0-1800 m (0-5906 ft.) - Storage temperature: -40°C to +70°C (-40°F to +158°F)
Relative humidity	5% RH to 95% RH, noncondensing
Altitude	< 5000 m (16404 ft.)
Noise (sound pressure, 27°C)	- Back-to-front airflow: < 55 dBA - Front-to-back airflow: < 54 dBA
Power source type	AC
AC power input	- Rated input voltage range: 100 V AC to 240 V AC, 50/60 Hz - Maximum input voltage range: 90 V AC to 290 V AC, 47 Hz to 63 Hz
DC power input	- Rated voltage range: -48 V DC to -60 V DC - Maximum voltage range: -38.4 V DC to -72 V DC
High-voltage DC power input	Not supported
Rated input current	- 600 W AC power (PAC-600WA series): 9 A (100 V AC to 240 V AC) - 600 W DC power (PDC600S12 series): 20A (-48 V DC to -60 V DC)
Maximum power consumption	444 W
Typical power consumption	262 W (100% throughput, QSFP+ cables on 32 ports, double power modules)
Maximum heat dissipation	1515 BTU/hr
Typical heat dissipation	895 BTU/hr (100% throughput, QSFP+ cables on 32 ports, double power modules)
Surge protection	AC Power module: 6 kV in common mode and 6 kV in differential mode
Heat dissipation mode	Air cooling
Airflow	Front-to-back or back-to-front, depending on the fan modules and power modules
Power module backup	1+1 backup
Fan module backup	1+1 backup not supported NOTE: CE7800 chassis uses two fan modules, with each fan module containing two fans. The four fans in the chassis work in 3+1 backup mode.
Hot swap	Supported by all power modules and fan modules
Mean time between failures (MTBF)	49.81 years
Mean time to repair (MTTR)	1.81 hours
Availability	0.99999584354
Processor	1.5 GHz, quad-core
DRAM Memory	4 GB
NOR Flash	16 MB

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NAND Flash	1 GB
Service port supporting the stack function	40GE optical ports
Certifiaion	- Safety standards compliance - EMC standards compliance - Environmental standards compliance

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