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Overview

Huawei CloudEngine 6850 (CE6850 for short) series switches are next-generation 10G Ethernet switches designed for data centers and high-end campus networks, providing high-performance, high-density 10GE ports, and low latency. The CE6850 series uses an advanced hardware architecture with 40GE uplink ports and high-density 10GE access ports. Using the Huawei VRP8 software platform, the CE6850 series provides extensive data center service features and high stacking capability. In addition, the airflow direction (front-to-back or back-to-front) can be changed. CE6850 series can work with CE12800 switches to build an elastic, virtualized, high-quality fabric that meets the requirements of cloud-computing data centers.

Quick Specification

Table 1 shows the Quick Specification.

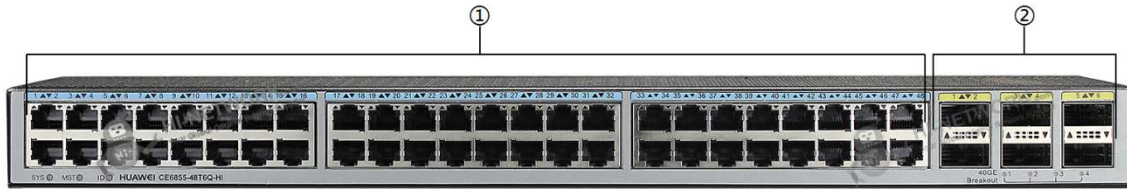
Model	CE6855-HI-F-B00
Part Number	02350QAK
Description	48-Port 10GE RJ45, 6-Port 40GE QSFP+, 2*AC Power Module, 2*FAN Box, Port-side Exhaust
Processor	1.2 GHz, quad-core
DRAM Memory	2 GB
NOR Flash	16 MB
NAND Flash	1 GB
Mean time between failures (MTBF)	54.48 years
Mean time to repair (MTTR)	1.81 hours

Figure 1 shows the appearance of CE6855-HI-F-B00.



Product Details

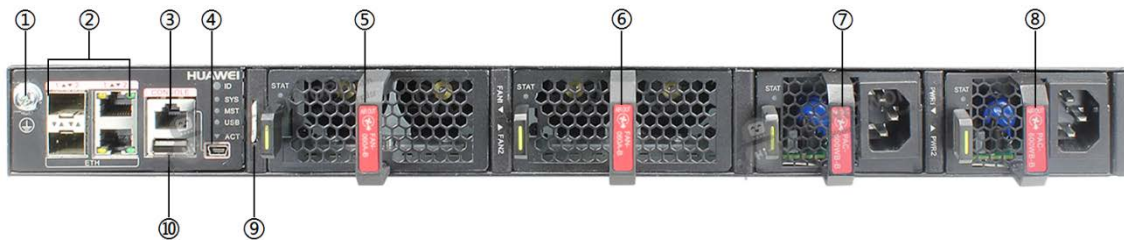
Figure 2 shows the front (port side) panel of CE6855-HI-F-B00.



Note:

(1)	Forty-eight 10GBASE-T Ethernet electrical ports
(2)	Six 40GE QSFP+ Ethernet optical ports

Figure 3 shows the rear (power supply side) panel of CE6855-HI-F-B00.



Note:

(1)	Ground screw	(6)	Fan slot 2
(2)	Two ETH management ports (combo)	(7)	Power supply slot 1
(3)	Console port	(8)	Power supply slot 2
(4)	Mini USB port	(9)	Barcode label
(5)	Fan slot 1	(10)	USB port

The Modules

Table 2 shows the recommended elements for the CE6855-HI-F-B00.

Model	Description
	AC power module
PAC-600WB-F	600W AC&240V DC Power Module (Power panel side intake)

PAC-600WB-B	600W AC&240V DC Power Module (Power panel side exhaust) VIEW AS
FE-SFP Optical Transceiver	
SFP-FE-SX-MM1310	Optical Transceiver, SFP, 100M/155M, Multi-mode Module (1310nm, 2km, LC)
eSFP-FE-LX-SM1310	Optical Transceiver, eSFP, 100M/155M, Single-mode Module (1310nm, 15km, LC)
S-SFP-FE-LH40-SM1310	Optical Transceiver, eSFP, FE, Single-mode Module (1310nm, 40km, LC)
GE-SFP Optical Transceiver	
eSFP-GE-SX-MM850	Optical Transceiver, eSFP, GE, Multi-mode Module (850nm, 0.55km, LC)
SFP-GE-LX-SM1310	Optical Transceiver, eSFP, GE, Single-mode Module (1310nm, 10km, LC)
S-SFP-GE-LH40-SM1310	Optical Transceiver, eSFP, GE, Single-mode Module (1310nm, 40km, LC)
40GE QSFP+ optical transceiver	
QSFP-40G-iSR4	40GBase-iSR4 Optical Transceiver, QSFP+,40G, Multi-mode (850nm,0.15km, MPO) (Connect to four SFP+ Optical Transceiver)
QSFP-40G-LR4	40GBase-LR4 Optical Transceiver, QSFP+,40GE, Single-mode Module (1310nm,10km, LC)
FAN-060A	
FAN-060A-F	Fan box (F, FAN panel side intake)
FAN-060A-B	Fan box (B, FAN panel side exhaust)

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Do you have any question about the CE6855-HI-F-B00 (02350QAK)?

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Specification

CE6855-HI-F-B00 Specification	
Item	Description
Model	CE6855-HI-F-B00
Part Number	02350QAK
Description	48-Port 10GE RJ45, 6-Port 40GE QSFP+, 2*AC Power Module, 2*FAN Box, Port-side Exhaust
Processor	1.2 GHz, quad-core
DRAM Memory	2 GB
NOR Flash	16 MB
NAND Flash	1 GB
Mean time between failures (MTBF)	54.48 years

Mean time to repair (MTTR)	1.81 hours
Physical specifications	Dimensions (W x D x H): 442.0 mm x 600.0 mm x 43.6 mm (17.4 in. x 23.6 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): 12.6 kg (27.78 lb)
Temperature	Operating temperature: 0°C to 40°C (32°F to 104°F) at altitude of 0-1800 m (0-5906 ft.) NOTE: When the altitude is 1800-5000 m (5096-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 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: < 53 dBA Front-to-back airflow: < 53 dBA
Power source type	AC/DC/high-voltage DC
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	Rated voltage of 240 V high-voltage DC power input: 240 V DC Maximum voltage range of 240 V high-voltage DC power input: 188 V DC to 290 V DC Rated voltage range of 380 V high-voltage DC power input: 240 V DC to 380 V DC Maximum voltage range of 380 V high-voltage DC power input: 188 V DC to 400 V DC
Rated input current	600 W AC&240 V DC power module (PAC-600WB series): 8 A (100 V AC to 240 V AC)/4 A (240 V DC) 600 W high-voltage DC power module (PHD-600WA series): 4 A (240 V DC to 380 V DC) 1200 W DC power (PDC-1K2WA series): 38 A (-48 V DC to -60 V DC)
Maximum power consumption	346 W
Typical power consumption	219 W (100% throughput, 3 m Ethernet cables on 48 ports and QSFP+ cables on 6 ports, double power modules)
Maximum heat dissipation	1181 BTU/hr
Typical heat dissipation	747 BTU/hr (100% throughput, 3 m Ethernet cables on 48 ports and QSFP+ cables on 6 ports, double power modules)
Surge protection	Ethernet electrical ports: 2 kV in common mode Power module: AC: 4 kV in common mode and 2.5 kV in differential mode DC: 4 kV in common mode and 2 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: A CE6800 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

Availability	0.99999620929
Service port supporting the stack function	10GE electrical ports and 40GE optical ports

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