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Overview

Cisco Catalyst 6800 switch chassis, 5RU, Super 2T Engine, no PS, no Fan Tray.

The Cisco Catalyst 6880-X Series offers primary features and benefits, including:

- **Platform Scalability:** The platform supports up to 220Gbps slot capacity per port-card. It supports up to 2Tbps of switching capacity, which doubles up to 4Tbps with VSS technology.
- **Security:** Support for Cisco TrustSec (CTS), to provide IEEE 802.1AE MACsec encryption and role-based ACL, CoPP to prevent DoS attacks and Cisco ISE to safeguard and manage end-to-end security for the enterprise.
- **Virtualization:** Comprehensive suite of Virtualization features including L2/L3 VPN, full MPLS, EVN, VRF aware applications for NAT Netflow, GRE for v4/v6, L2 extensions with VPLS etc. to segment different user groups and serve unique security/QoS policy requirements of each of these diverse user groups.
- **Application Visibility and Control (AVC):** Supports enhanced application monitoring such as Flexible and Sampled NetFlow for intelligent and scalable application monitoring.
- **Smart Operations:** The Cisco Catalyst 6880-X supports Catalyst Instant Access*, which allows an Instant Access Client to act as a remote line card of the Cisco Catalyst 6880-X, as well as Smart Install Director, which provides zero-touch deployment of access switches.
- **High Availability:** Two Cisco Catalyst 6880-X Series Switches can be combined into a VSS. In addition to high-availability VSS, provides ease of operation by providing a single point of management, eliminating the need for First Hop Routing Protocol (FHRP) and removing the reliance on Spanning Tree Protocol (STP) for link failure restoration.

* Support of Catalyst Instant Access is available on 15.1(2) SY2 and later releases.

Quick Specs

Figure 1 shows the appearance of C6880-X-LE.



Table 1 shows the Quick Specs.

Product Code	C6880-X-LE
Number of port card slots	4
Switching Capacity	Up to 2Tbps
Inches	8.75x 17.35 x 23
Centimeters	22.23 X 44.07 X 58.42
Rack units (RU)	4.85

The Modules, Cards, Licenses

Table 2 shows the recommended elements for the C6880-X-LE.

Category	Model	Description
SFP 10G Options	SFP-10G-SR-S	10GBASE-SR SFP Module, Enterprise-Class
	SFP-10G-ZR	Cisco 10GBASE-ZR SFP10G Module for SMF
	SFP-10G-LR	10GBASE-LR SFP+ Module for SMF 10 Gbps
GLC Options	GLC-ZX-SMD	1000BASE-ZX SFP transceiver module, SMF, 1550nm, DOM
	GLC-BX-D	1000BASE-BX SFP, 1490NM
Line Cards	C6880-X-16P10G	Cisco Catalyst 6880-X Multi Rate Port Card (XL Tables) More
Accessories	CAB-CONSOLE-RJ45	Console Cable 6ft with RJ45 and DB9F

Compare to Similar Items

Table 3 shows the comparison of C6880-X and C6880-X-LE.

Attribute	C6880-X-LE	C6880-X
MAC entries	128K	128K
Routes	256K (IPv4) 128K (IPv6)	2048K (IPv4) 1024K (IPv6)
ACL entries	64K shared for QoS/Security	256K shared for QoS/Security
NetFlow entries	512K (per module slot) Up to 2.5M per system	1024K (per module slot) Up to 5M per system
Multicast routes	128K (IPv4) 128K (IPv6)	128K (IPv4) 128K (IPv6)
IPv4 routing	In hardware Up to 300 Mpps**	In hardware Up to 300 Mpps**
IPv6 routing	In hardware Up to 150 Mpps**	In hardware Up to 150 Mpps**
L2 bridging	In hardware Up to 300 Mpps**	In hardware Up to 300 Mpps**
Jumbo frame support	Up to 9216 bytes (For bridged and routed pkts.)	Up to 9216 bytes (For bridged and routed pkts.)
VLAN	4K	4K
Bridge domains	16K	16K
MPLS	In hardware (up to 8192 VRFs at 300 Mpps**)	In hardware (up to 8192 VRFs at 300 Mpps**)
Logical interfaces	128K	128K
EtherChannel hash	8 bits	8 bits
VPLS	In hardware (up to 150 Mpps**)	In hardware (up to 150 Mpps**)
GRE	In hardware (up to 150 Mpps**)	In hardware (up to 150 Mpps**)
NAT	Hardware assisted	Hardware assisted
Onboard memory	2GB***	4GB
Ingress buffers	1.25MB per 10G port in 2:1 mode 2.5MB per 10G port in 1:1 mode (10MB per Port ASIC)	1.25MB per 10G port in 2:1 mode 2.5MB per 10G port in 1:1 mode (10MB per Port ASIC)

Egress buffers	24MB per 10G port in 2:1 mode 48MB per 10G port in 1:1 mode (192MB per MUX FPGA)	24MB per 10G port in 2:1 mode 48MB per 10G port in 1:1 mode (192MB per MUX FPGA)
Oversubscription	16P 10G at 2:1 in oversubscription mode (default) for base module and port cards 8P 10G at 1:1 in performance mode (configurable) for base module and port cards	

Get more information

Do you have any question about the C6880-X-LE?

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Specification

C6880-X Specification	
Number of port card slots	4
Switching Capacity	Up to 2Tbps
Performance	The chassis is capable of supporting up to 220 Gbps per port card slot. The 16 port 10G port cards and the base module will support 80 Gbps.
Maximum Port Density Per Chassis	Up to 80 x 10 Gigabit Ethernet ports Up to 80x 1 Gigabit Ethernet ports
Maximum Port Density (VSS)	Up to 158x 10 Gigabit Ethernet ports Up to 158x 1 Gigabit Ethernet ports
Power Supply Compatibility	AC: 3000W, DC: 3000W
Module Compatibility	All modules based on the software release in the system
Reliability and Availability	
Online Insertion and Removal (OIR)	OIR supported for redundant power supplies and port cards.
Physical dimensions (H x W x D)	
Inches	8.75x 17.35 x 23
Centimeters	22.23 X 44.07 X 58.42
Rack units (RU)	4.85
Weight	
Chassis with 2 power supplies and fan tray	64 lbs/29.03 kgs
Chassis with 2 power supplies, fan tray with four port cards	88 lbs/39.92 kgs
Input Voltage	100 to 240 VAC -48 to -60 VDC
Safety	UL 60950 Second Edition CAN/CSA-C22.2 No. 60950 Second Edition EN 60950 Second Edition IEC 60950 Second Edition AS/NZS 60950

EMC	FCC Part 15 (CFR 47) Class A VCCI Class A EN55022 Class A CISPR 22 Class A CE marking AS/NZS 3548 Class A ETS300 386 EN55024 EN61000-6-1 EN50082-1
NEBS/ETSI	GR-1089-Core NEBS Level 3 ETS 300 019 Storage Class 1.1 ETS 300 019 Transportation Class 2.3 ETS 300 019 Stationary Use Class 3.1
ATIS Pb free and Energy efficiency	ATIS-0600020.2010 Pb Free circuit packs ATIS-0600015-2009 General Energy Efficiency Requirements (TEER) ATIS-0600015.03-2009 Switch and Router Energy Efficiency ATIS-0600015.01-2009 Server Energy Efficiency VZ.TPR.9205 Verizon Energy Efficiency Requirements for Telecommunication Equipment (TEEER)
Network Management	ETHERLIKE-MIB (RFC 1643) IP-MIB and IP-FORWARD-MIB for IPv6 IF-MIB (RFC 1573) Bridge MIB (RFC 1493) CISCO-STACK-MIB CISCO-VTP-MIB CISCO-CDP-MIB RMON MIB (RFC 1757) CISCO-PAGP-MIB CISCO-STP-EXTENSIONS-MIB CISCO-VLAN-BRIDGE-MIB CISCO-VLAN-MEMBERSHIP-MIB ENTITY-MIB (RFC 2037) HC-RMON RFC1213-MIB (MIB-II) SMON-MIB
Operating Environment	
Operating Temperature	32°F to 104°F (0 to 40°C)
Storage Temperature	-4 to 149°F (-20 to 65°C)
Thermal Transition	0.5°C per minute (hot to cold) 0.33°C per minute (cold to hot)
Relative Humidity	Ambient (noncondensing) operating: 5% to 90% Ambient (noncondensing) nonoperating and storage: 5% to 95%
Operating Altitude	Certified for operation: 0 to 6500 ft (0 to 2000 m) Designed and tested for operation: -200 to 10,000 ft (-60 to 3000 m)

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