

# Cisco Catalyst PON Series Switches

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## Catalyst grade performance now in PON technology

Cisco Catalyst PON Series switches extend the power of Catalyst switches to passive optical network infrastructure. With its family pedigree, **Catalyst PON Series switches offer Competitive fiber based network solution - it is high performance, structurally simple, and easy to maintain.**

As foundational building blocks for the Cisco Digital Network Architecture, Catalyst PON Series switches help customers simplify complexity, optimize IT, and reduce operational costs by leveraging intelligence, automation and human expertise. It provides security features that protect the integrity of the hardware as well as the software and all data that flows through the device, giving you what you need now with investment protection on future innovations.

With GPON feature support, bandwidth up to 108 Gbps, double uplink module, power redundancy, ONT PoE+ capability and high aggregation capacity, Catalyst PON Series switches are the industry's All-Optical solution with differentiated resiliency and progressive architecture for cost-effective optical network access.

CGP-OLT products are compact and high-density network aggregation devices, meeting the requirements of ITU-T G.984 and relative GPON standards, with high access capacity, reliability and powerful security function.

CGP-ONT products provide access for comprehensive services, including High-Speed Internet, Video, VoIP, CCTV and CATV to the subscribers in FTTx application with powerful interoperability and stability.

## Product overview

### Product highlights

- All services over one optical network
- Compact and high-density for various scenarios
- 1RU for easy and quick installation
- Easy management and maintenance
- Up to 16 ports of 2.5G GPON access capability
- Redundant power supply and uplinks
- Flexible downlink options with data, video, voice (POTS - only supports voice service), CATV, PoE+, Wi-Fi
- Integrated CPU offers customers optimized scale with better cost structure
- Template-based configurable allocation of Layer 2 forwarding, Access Control Lists (ACLs), and Quality of Service (QoS) entries

## Features and benefits

## Platform details

### Switch models and configurations

Models	Power Supply	Fans	Uplinks
CGP-OLT	✓	✓	✓
CGP-ONT	✓	✗	✓

The Cisco Catalyst PON Series switches are made up of Optical Line Terminal (OLT) and Optical Network Terminal (ONT).



**Figure 1.**  
Cisco Catalyst PON OLT



**Figure 2.**  
Cisco Catalyst PON ONT

**Table 1.** Cisco Catalyst PON Series OLT configurations

Switch model	Downlinks total PON ports	Uplinks Configuration GE Ethernet	Uplink configuration 10G Ethernet	Management Console	Default primary AC power supply	Optional secondary power supply*	Fans
<b>CGP-OLT-8T</b>	8 GPON ports	4 Gigabit Combo ports (Copper RJ45 + SFP optical)	2 SFP+	RJ45 Console, OOB GE, RJ45 Alarm	PWR-OLT8-80WAC	PWR-OLT8-80WAC or PWR-OLT8-72WDC	modular
<b>CGP-OLT-16T</b>	16 GPON ports	4 Gigabit Combo ports (Copper RJ45 + SFP optical)	2 SFP+	RJ45 Console, OOB GE	PWR-OLT16-100WAC	PWR-OLT16-100WAC or PWR-OLT16-100WDC	fixed

\*Power supplies available Q3 FY22

**Table 2.** Cisco Catalyst PON Series ONT configurations

Switch model	Downlinks total 10/100/1000 PoE+ copper ports	Uplink configuration PON port	Voice POTS	CATV Coaxial	Wi-Fi	USB Type A File mgt	Fans
<b>CGP-ONT-1P</b>	1 PoE+	1 GPON (SC/APC receptacle)	n/a	n/a	n/a	n/a	fanless
<b>CGP-ONT-4P</b>	4 PoE+	1 GPON (SC/APC receptacle)	n/a	n/a	n/a	1 USB Type A	fanless
<b>CGP-ONT-4PV</b>	4 PoE+	1 GPON (SC/APC receptacle)	2 POTS RJ11	n/a	n/a	1 USB Type A	fanless
<b>CGP-ONT-4PVC</b>	4 PoE+	1 GPON (SC/APC receptacle)	2 POTS RJ11	1 CATV Coax	n/a	1 USB Type A	fanless
<b>CGP-ONT-4TVCW-x*</b>	4 Data	1 GPON (SC/APC receptacle)	2 POTS RJ11	1 CATV Coax	1 Wi-Fi 2.4G/5GHz	1 USB Type A	fanless

\*x=Region Prefix. Currently -EU, -NA and -IN available, refer to ordering information section for regulatory domains. Please reach out for other regions.

## Platform resiliency

### Power supplies

Cisco Catalyst PON Series OLT supports dual field-replaceable power supplies (Figure 3). Each switch ships with one default power supply, and a second identical power supply can be purchased with the initial order or can be added at a later time. The second power supply can provide redundancy as needed.



**Figure 3.**  
Cisco Catalyst PON Series OLT dual redundant power supplies

\*Power supplies available Q3 FY22

### Fan

Cisco Catalyst PON Series 16 port OLT (CGP-OLT-16T) fans are fixed.

### Intelligent PoE+

IEEE 802.3at PoE+ (up to 30W per port) is supported on Cisco Catalyst PON Series OLT (except CGP-ONT-4TVCW-x) to lower the total cost of ownership for deployments that incorporate Cisco IP phones, Cisco Aironet® wireless access points, or other standards-compliant PoE+ end devices. PoE+ removes the need to supply wall power to PoE-enabled devices and eliminates the cost of adding electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments. With Cisco Catalyst PON Series OLT, PoE+ power allocation is dynamic, and power mapping scales up to a maximum of 60W of PoE+ power.

## Performance and scalability

Table 3 lists performance and scalability metrics for Cisco Catalyst PON Series OLT, table 4 lists the ones of OLT.

**Table 3.** Performance specifications of OLT

Description	CGP-OLT-8T	CGP-OLT-16T
Switching Capacity	78Gbps	108Gbps
Forwarding Rate	65Mpps	95Mpps
Total number of MAC addresses	32k	64k
Total number of IPv4 routing table	2k	2k
Total number of ARP table	8k	8k
VLAN IDs	4k	4k

Description	CGP-OLT-8T	CGP-OLT-16T
T-CONT of each PON port	768	768
Gemport of each PON port	3,072	3,072
ONT Ranging Logical Distance	60km	60km
ONT Ranging Physical Distance	20km	20km
Splitter Ratio	1:64 recommended Up to 1:128	1:64 recommended Up to 1:128
Network Protection Mode	Type B	Type B
ONT Authentication	SN mode Password mode SN+Password mode LOID mode LOID+LOID Password mode	SN mode Password mode SN+Password mode LOID mode LOID+LOID Password mode
QoS scale entries	SP, WRR, SP+WRR, cos-map, dscp-map Queue: 8	SP, WRR, SP+WRR, cos-map, dscp-map Queue: 8
ACL scale entries	2K	2K
Jumbo frames	9,220 bytes	9,220 bytes
DRAM	Switch-1GB DDR3 PON CPU-256MB DDR3 PON ICF0- 512MB DDR3	Switch-1GB DDR3 PON CPU-256MB DDR3 PON ICF0- 512MB DDR3 PON ICF1- 512MB DDR3
Flash	32MB	32MB

**Table 4.** Performance specifications of ONT

Description	CGP-ONT-1P	CGP-ONT-4P	CGP-ONT-4PV	CGP-ONT-4PVC	CGP-ONT-4TVCW-x
<b>Switching Capacity</b>	5.75Gbps	11.75Gbps	11.75Gbps	11.75Gbps	11.75Gbps
<b>Forwarding Rate</b>	5.2Mpps	9.6Mpps	9.6Mpps	9.6Mpps	9.6Mpps
<b>Total number of MAC addresses</b>	2k	2k	2k	2k	2k
<b>Total number of IPv4 routing table</b>	n/a	8 static routes	8 static routes	8 static routes	8 static routes
<b>Total number of ARP table</b>	n/a	1K	1K	1K	1K
<b>T-CONT/Gemport</b>	8/32	8/32	8/32	8/32	8/32
<b>Transmission Rate</b>	DS:2.488 Gbps US:1.244 Gbps	DS:2.488 Gbps US:1.244 Gbps	DS:2.488 Gbps US:1.244 Gbps	DS:2.488 Gbps US:1.244 Gbps	DS:2.488 Gbps US:1.244 Gbps
<b>QoS scale entries</b>	8 priority queues	8 priority queues	8 priority queues	8 priority queues	8 priority queues
<b>IP/Port filter entries</b>	20	20	20	20	20
<b>Mac Filter entries</b>	20	20	20	20	20
<b>URL Blocking entries</b>	8	8	8	8	8
<b>Jumbo frames</b>	1,500 bytes	1,500 bytes	1,500 bytes	1,500 bytes	1,500 bytes
<b>DRAM</b>	32MB DDR3	256MB DDR3	256MB DDR3	256MB DDR3	256MB DDR3
<b>Flash</b>	16MB	128MB	128MB	128MB	128MB



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## Platform benefits

### Passive Optical Network

- Passive element is stable, easy to maintain without failure.
- All-Optical has high bandwidth and great potential for bandwidth upgrade in the future, which is the development trend of bearer network.
- Simple Network, load balancing and end-to-end network management for easy maintenance.

### High Performance

- The platform adopts all-optical network, which has large bandwidth capacity for carrying multiple services. It has good expansibility and network upgrade space, which is in line with the network development trend.
- Large bandwidth, the maximum bandwidth of a single user can reach 2500Mbps.
- One fiber carrying multiple services, supporting voice, video, security, Internet and other services.

### High Reliability

- Support type B protection, backup and disaster recovery protection for PON port.
- Power redundancy and dual uplink routing to avoid single point of network failure.
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) provides rapid spanning tree convergence independent of spanning tree timers and also offers the benefit of Layer 2 load balancing and distributed processing.
- IEEE802.3AD Link Aggregation Control Protocol (LACP) provides multiple links binding to achieve uplink backup.

### QoS

- The platform provides end-to-end QoS guarantees. Through the comprehensive application of congestion management, priority marking, queue scheduling and traffic rate limiting/shaping, it can meet the user's service quality requirements and create a high-quality network for customers.
- Service quality guarantee: Based on the IEEE 802.1p protocol, different service class CoS (Class of Service) values are set according to different service types, and differentiated priority processing methods are provided to improve the network quality index such as delay time, jitter, and packet loss rate. Different traffic classifications have different priorities, and different queues such as SP (Strict Priority) and WRR (Weighted Round Robin) are used to perform queue scheduling of data flows for improving the services quality.
- Bandwidth guarantee: User bandwidth is guaranteed by the application of DBA (Dynamic Bandwidth Assignment) mechanism and the traffic rate limiting/shaping function. Generally, the VoIP service is set to a fixed bandwidth, the IPTV and video services are set to ensure bandwidth, and the high-speed Internet service is set to the maximum bandwidth. The data stream is limited and shaped by a plurality of line templates to ensure bandwidth guarantee.

## Quick Installation and Deployment

- Automatic data configuration and delivery, fast service opening.
- Low-energy equipment to save energy, reduce emissions and protect the environment.

## Easy Maintenance

- The whole process of passive optical connection makes the network topology stable and reliable, and the fault point is greatly reduced. The network management system can directly manage the user ports of the ONT, provide end-to-end QoS service guarantees for the entire network, and implement end-to-end network management, which reduces the pressure and intensity of operation and maintenance, while improves operation and maintenance efficiency.
- Cisco PON Manager is an embedded GUI-based device-management tool that provides the ability to provision the device, to simplify device deployment and manageability, and to enhance the user experience. It supports Alarm, Performance, Data Configuration and Delivery, Security, Log, Terminal Management and software batch upgrade functions.

## Specifications

### Dimensions, Weight, Acoustic, Mean time between failures

Table 5 shows the dimensions, weight, acoustic, and mean time between failures of all models of Cisco Catalyst PON Series switches.

**Table 5.** Model Dimensions, Weight, and Mean time between failures metrics

Model	Chassis Dimensions	
	Inches	Centimeters
CGP-OLT-8T	1.7 x 17.3 x 10.8	4.4 x 44.0 x 27.5
CGP-OLT-16T	1.7 x 17.3 x 15.0	4.4 x 44.0 x 38.0
CGP-ONT-1P	1.5 x 4.1 x 7.5	3.8 x 10.5 x 19.0
CGP-ONT-4P	1.7 x 9.4 x 5.7	4.4 x 24.0 x 14.5
CGP-ONT-4PV	1.7 x 9.4 x 5.7	4.4 x 24.0 x 14.5
CGP-ONT-4PVC	1.7 x 9.4 x 5.7	4.4 x 24.0 x 14.5
CGP-ONT-4TVCW-x	1.6 x 6.6 x 6.9	4.0 x 16.8 x 17.5

Model	Pounds	Kilograms
CGP-OLT-8T	9.9	4.5
CGP-OLT-16T	16.8	7.6
CGP-ONT-1P	1.9	0.84
CGP-ONT-4P	2.8	1.25
CGP-ONT-4PV	2.8	1.25
CGP-ONT-4PVC	2.8	1.25
CGP-ONT-4TVCW-x	0.8	0.36

Mean time between failures (hours)	
CGP-OLT-8T	340,000
CGP-OLT-16T	330,000
CGP-ONT-1P	830,000
CGP-ONT-4P	450,000
CGP-ONT-4PV	410,000
CGP-ONT-4PVC	360,000
CGP-ONT-4TVCW-x	830,000

Environmental ranges	
<b>Acoustic noise</b> <b>Measured per ISO 7779 and declared per ISO 9296</b> <b>Bystander positions operating to an ambient temperature of 25° C</b>	With AC power supply: <ul style="list-style-type: none"> <li>• LpA: 45.6 dB max (CGP-OLT-8T)</li> <li>• LpA: 44.4 dB max (CGP-OLT-16T)</li> </ul> Maximum: Statistical maximum to account for variation in production

## Connectors

Table 6 shows the supported connectors for Cisco Catalyst PON Series switches, Table 7 shows the GPON SFP.

**Table 6.** Connectors

<b>Connectors and cabling</b>	<ul style="list-style-type: none"> <li>• 1000BASE-T ports: RJ-45 connectors, 4-pair Cat 5E UTP cabling</li> <li>• 1000BASE-T SFP-based ports</li> <li>• 100BASE-FX, 1000BASE-SX, -LX/LH, SFP transceivers: LC fiber connectors (single-mode or multimode fiber)</li> <li>• 10GBASE-SR, LR, LRM, SFP+ transceivers: LC fiber connectors (single-mode or multimode fiber)</li> <li>• GPON SFP connector</li> <li>• Ethernet management port: RJ-45 connectors, 4-pair Cat 5 UTP cabling</li> <li>• Management console port: RJ-45-to-DB9 cable for PC connections</li> </ul>
<b>Power connectors</b>	<ul style="list-style-type: none"> <li>• Internal power supply connector: The internal power supply is an auto-ranging unit. It supports input voltages between 100 and 240 VAC. Use the supplied AC power cord to connect the AC power connector to an AC power outlet.</li> </ul>

**Table 7.** GPON SFP

Description	CGP-SFP-OC=
Average output power	3~7dBm
Center wavelength	1480~1500nm
Extinction ratio	8.2~12.2dB
Crossing	44~46%
Jitter RMS	8~16ps
Optical eye mask, Margin	30%
Sensitivity	-30dBm
Overload	-12dBm
LOS Desertion	-33dBm
Power Supply Current for 3.3V	270~500mA

## Management and standards support

Table 8 shows management and standards support for Cisco Catalyst PON Series switches.

**Table 8.** Management and standards support\*

Description	Specification
<b>Management</b>	8021xMIB ciscoMasterMib dot3OAM-MIB ENTITY-MIB garpMib gbnDeviceOEM-MIB gbnDevicePoe-MIB gbnDeviceStack-MIB gbnDeviceSWAPI-MIB gbnDeviceSwitch-MIB gbnL2Dhcp6Snooping-MIB gbnL2DhcpSnooping-MIB gbnL2PortSecurity-MIB gbnL2PppoePlus-MIB gbnL2QACL-MIB gbnL2Switch-MIB gbnL3-MIB-vr gbnL3-MIB gbnL3DhcpRelay-MIB gbnL3lf-MIB gbnL3lgmp-MIB gbnL3IPPool-MIB gbnL3Ospf-MIB gbnL3Pim-MIB gbnL3PimBsr-MIB gbnL3Rip-MIB-vr gbnL3Rip-MIB gbnL3RouteCommon-MIB gbnPlatformChassis-MIB gbnPlatformGNLink-MIB gbnPlatformOAM-MIB gbnPlatformOAMMailalarm-MIB gbnPlatformOAMSSH-MIB

Description	Specification
	gbnPlatformOAMSyslog-MIB gbnPlatformOAMTelnet-MIB gbnPlatformSntpClient-MIB gbnServiceCM-MIB gbnServiceMAC-NOTIFICATION-MIB gbnServiceMACAUTHEN-MIB gbnServiceRADIUS-MIB gbnServiceRMON-MIB gbnServiceTACACSPLUS-MIB gerpMib GPON-MIB IANA-ADDRESS-FAMILY-NUMBERS-MIB IANA-ENTITY-MIB IANAifType-MIB INET-ADDRESS-MIB IP-MIB lldpMib lldpPrivate-MIB MGMD-STD-MIB mstpMib ngponMib stpMib TCP-MIB UDP-MIB UUID-TC-MIB
<b>Standards</b>	ITUT G.984.1 ITUT G.984.2 ITUT G.984.3 ITUT G.984.4 ITUT G.988 IEEE 802.1w IEEE 802.1x Authentication IEEE 802.3af IEEE 802.3at IEEE 802.3ad IEEE 802.1D Spanning Tree Protocol IEEE 802.1p CoS prioritization

Description	Specification
	IEEE 802.1Q VLAN
	IEEE 802.3ab 1000BASE-T specification
	IEEE 802.3z 1000BASE-X specification
	IEEE 802.3ae
	IEEE 802.11b/g/n/ac
	RMON I and II standards
	SNMPv1, v2c, and v3

## Power supply specifications

Table 9 lists the power specifications for Cisco Catalyst PON Series switches based on the kind of power supply used.

**Table 9.** Power supply specifications

Description	Specification			
	PWR-OLT8-80WAC	PWR-OLT8-72WDC	PWR-OLT16-100WAC	PWR-OLT16-100WDC
<b>Power supply rated maximum</b>	80W	72W	100W	100W
<b>Total output BTU (note: 1000 BTU/hr = 293W)</b>	273BTU/hr, 80W	246BTU/hr, 72W	341BTU/hr, 100W	341BTU/hr, 100W
<b>Input-voltage range and frequency</b>	90 to 264 VAC, 47 to 63 Hz	-36VDC~-75VDC	90 to 264 VAC, 47 to 63 Hz	-36VDC~-75VDC
<b>Input current</b>	1.2A	2.4A	1.5A	4A
<b>Output ratings</b>	12V/6.6A, 80W	11.7V/6A, 72W	12V/8.3A, 100W	12V/8.3A, 100W
<b>Power cord rating</b>	10A	10A	10A	10A
<b>Physical specifications</b>	215mmx57mmx40mm	215mmx57mmx40mm	192mmx85mmx40mm	192mmx85mmx40mm
<b>Supported Product Family</b>	CGP-OLT-8T	CGP-OLT-8T	CGP-OLT-16T	CGP-OLT-16T
<b>Operating temperature</b>	23° to 104° F (-5° C to +40°) @ sea level * Minimum ambient temperature for cold start is 32° F (0° C)			
<b>Storage temperature</b>	13° to 158° F (-25° to 70° C)			
<b>Relative humidity operating and non-operating non-condensing</b>	5% to 90%, non-condensing			
<b>Altitude</b>	10,000 ft. (3000 meters)			

Description	Specification			
	PWR-OLT8-80WAC	PWR-OLT8-72WDC	PWR-OLT16-100WAC	PWR-OLT16-100WDC
<b>EMI/EMC and safety compliance</b>	<ul style="list-style-type: none"> <li>• ETSI 300 019 Environmental Engineering (EE) ; Environmental conditions and environmental tests for telecommunications equipment</li> <li>• ETSI EN 301 489-1 Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements</li> <li>• ETSI EN 301 489-8 Electromagnetic Compatibility and Radio spectrum Matters(ERM);Electromagnetic Compatibility (EMC) Standard for Radio Equipment and services; Part 8: Specific conditions for GSM Base stations</li> <li>• BS EN 55022</li> <li>• CEI IEC 60950-1999 Safety of information technology equipment</li> <li>• UL 60950 Safety of Information Technology Equipment</li> <li>• IEC61000-4 Electromagnetic compatibility (EMC); part 4: testing and measurement techniques</li> <li>• IEC 60529 AMD 1-1999 Degrees of protection provided by enclosures (IP code); Amendment 1</li> </ul>			
<b>LED indicators</b>	Power image: Working is OK when it lights up. Alarm image: Fault happened when it lights up.			

## Power consumption of Standalone PON Series switches

Table 10 shows the power consumption of standalone Cisco Catalyst PON Series switches based on Alliance for Telecommunications Industry Solutions (ATIS) testing using Internet Mix (IMIX) distribution stream traffic, with input voltage of 115VAC at 60 Hz and no PoE loading. The values given are the maximum possible power consumption numbers under the respective test scenarios.

**Table 10.** Power consumption of Standalone Catalyst PON Series switches

OLT			Measured P(W)						
			Half port traffic			Full port traffic			No link
SKU	FEP	Input	100M	500M	1G	100M	500M	1G	
CGP-OLT-8T	80W	220VAC	43.9	43.9	44.1	51	51.3	51.8	37.0
		110VAC	44.6	44.7	44.9	51.4	51.9	52.2	36.5
CGP-OLT-16T	100W	220VAC	52.7	53.2	54.1	64.9	65.6	66.6	40.3
		110VAC	53.2	53.6	54.3	66.0	66.7	67.8	40.5



ONT			Measured P(W)									
			Half port traffic				Full port traffic				No link	PoE test (no traffic)
SKU	PSU	Input	0.01% EEE	10%	50%	100%	0.01% EEE	10%	50%	100%		
CGP-ONT-1P	36W	220VAC	n/a	n/a	n/a	n/a	3.01	3.12	3.15	3.21	2.61	33.8
		110VAC	n/a	n/a	n/a	n/a	2.82	2.91	2.95	2.98	2.23	33.6
CGP-ONT-4P	72W	220VAC	5.78	6.73	6.82	6.86	6.43	7.55	7.68	7.72	5.21	70.2
		110VAC	5.73	6.76	6.81	6.92	6.57	7.53	7.58	7.63	5.42	69.8
CGP-ONT-4PV	72W	220VAC	5.81	7.73	7.88	7.92	6.53	8.62	8.72	8.76	5.23	70.4
		110VAC	5.83	7.72	7.83	7.91	6.48	8.58	8.67	8.71	5.44	70.0
CGP-ONT-4PVC	72W	220VAC	5.88	7.82	7.95	7.97	6.54	8.65	8.73	8.81	5.25	70.5
		110VAC	5.89	7.75	7.88	7.92	6.49	8.62	8.70	8.71	5.46	70.4
CGP-ONT-4TVCW-x	18W	220VAC	5.40	7.51	7.57	7.63	5.99	8.22	8.32	8.36	4.68	n/a
		110VAC	5.18	7.11	7.39	7.41	5.92	8.11	8.25	8.28	4.54	n/a

## Safety and compliance

Table 11 lists the safety and compliance information for Cisco Catalyst PON Series switches.

**Table 11.** Safety and compliance information

Description	Specification
<b>Safety certifications</b>	<ul style="list-style-type: none"> <li>• IEC 60950-1:2005</li> <li>• IEC 62368-1:2014</li> </ul>
<b>Electromagnetic emissions certifications</b>	<ul style="list-style-type: none"> <li>• EN55032:2015</li> <li>• EN55035-2017</li> <li>• EN61000-3-2:2014</li> <li>• N61000-3-3:2013</li> <li>• AS/NZS CISPR 32:2015</li> <li>• EN 300386 V2.11</li> <li>• PART 15B, ICES-003: ISSUE 6</li> <li>• VCCI-CISPR 32:2016</li> </ul>
<b>Environmental</b>	Reduction of Hazardous Substances (ROHS) 5

## Warranty

Cisco Catalyst PON Series switches are covered by a Cisco standard 3-year replacement warranty that includes 10-day advance hardware replacement. For more details, visit <https://www.cisco.com/go/warranty>.

## Cisco services for Cisco Catalyst PON switches

Achieve infrastructure excellence faster and with less risk. Cisco Catalyst PON switch services provide expert guidance to help you successfully deploy, manage and support the Cisco Catalyst PON switches. With unmatched networking expertise, best practices and innovative tools, we can help you reduce overall upgrade, refresh, and migration costs as you introduce new hardware, software and protocols into the network. Offering a comprehensive lifecycle of services – from implementation, optimization, technical and managed services – Cisco experts help you minimize disruption and achieve operational excellence to extract maximum value from your network infrastructure.

Catalyst PON switch models offer an optional trial of 90 days of Cisco Smart Net Total Care to provide customers assistance with configuration, diagnosis, and troubleshooting of device-level problems. Cisco TAC experts are accessible 24 hours a day, 365 days per year. Online self-help tools include our extensive knowledge library, software downloads, and support tools designed to help you resolve network issues quickly, often without opening a case.

[Learn more about Cisco Services for Enterprise Networks](#)

## Software Policy for Cisco Catalyst PON Series switches

### Software Policy for Cisco software feature sets

Customers with the Cisco software feature sets are provided with maintenance updates and bug fixes designed to maintain compliance of the software. This includes compliance with published specifications, release notes, and industry standards as long as the original end user continues to own or use the product or up to one year from the end-of-sale date for the product, whichever occurs earlier.

## Ordering

### Ordering information

Table 12 lists ordering information for Cisco Catalyst PON Series switches. To place an order, visit the Cisco Ordering home page at

[https://www.cisco.com/en/US/ordering/or13/or8/order\\_customer\\_help\\_how\\_to\\_order\\_listing.html](https://www.cisco.com/en/US/ordering/or13/or8/order_customer_help_how_to_order_listing.html).

**Table 12.** Ordering information

Switches	
Product number	Product description
<b>CGP-OLT-8T</b>	Catalyst PON 8-port GPON OLT, 4 GE Combo ports (Copper RJ45 + SFP optical), 2 10GE SFP+
<b>CGP-OLT-16T</b>	Catalyst PON 16-port GPON OLT, 4 GE Combo ports (Copper RJ45 + SFP optical), 2 10GE SFP+
<b>CGP-ONT-1P</b>	Catalyst PON 1-port GPON ONT, PoE+
<b>CGP-ONT-4P</b>	Catalyst PON 4-port GPON ONT, PoE+

Switches	
Product number	Product description
<b>CGP-ONT-4PV</b>	Catalyst PON 4-port GPON ONT, PoE+, 2 POTS RJ11
<b>CGP-ONT-4PVC</b>	Catalyst PON 4-port GPON ONT, PoE+, 2 POTS RJ11, 1 CATV Coax
<b>CGP-ONT-4TVCW-x</b>	Catalyst PON 4-port GPON ONT, 2 POTS RJ11, 1 CATV Coax, 1 Wi-Fi 2.4G/5GHz. x=Region Prefix. Currently -EU, -NA and -IN available. Please reach out for other regions. EU - EU power adapter, -E Wireless LNA regulatory domain NA - NA power adapter, -A Wireless LNA regulatory domain IN - IN power adapter, -H Wireless LNA regulatory domain
GPON SFP	
Product Number	Product Description
<b>CGP-SFP-OC=</b>	GPON SFP type C, Sensitivity -30dBm, average output power 3~7dBm

## Optics online reference

Cisco Catalyst PON Series switches support a wide range of optics. Because the list of supported optics is updated on a regular basis, consult the tables available here for the latest SFP+ and SFP compatibility information:

[https://www.cisco.com/en/US/products/hw/modules/ps5455/products\\_device\\_support\\_tables\\_list.html](https://www.cisco.com/en/US/products/hw/modules/ps5455/products_device_support_tables_list.html).

## Product sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of Cisco's [Corporate Social Responsibility](#) (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	<a href="#">Materials</a>
Information on electronic waste laws and regulations, including products, batteries, and packaging	<a href="#">WEEE compliance</a>

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## Document history

New or revised topic	Described In	Date
Initial document		April 14, 2020
Edited by vendor		July 13, 2020
Reviewed		July 16, 2020
Updated for Wi-Fi ONT and Single Port ONT launch		September 17, 2021
Updated to reflect orderable PIDs only		November 22, 2022

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