Gear Net Technologies



C1000-48P-4G-L Datasheet

Overview Get a Quote

Cisco[®] Catalyst[®] 1000 Series Switches are fixed managed Gigabit Ethernet enterprise-class Layer 2 switches designed for small businesses and branch offices. These are simple, flexible and secure switches ideal for out-of-the-wiring-closet and critical Internet of Things (IoT) deployments.

Cisco[®] Catalyst[®] 1000 operate on Cisco IOS[®] Software and support simple device management and network management via a Command-Line Interface (CLI) as well as an on-box web UI. These switches deliver enhanced network security, network reliability, and operational efficiency for small organizations.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	C1000-48P-4G-L
Description	48x 10/100/1000 Ethernet PoE+ and 370W PoE budget ports, 4x 1G SFP uplinks
Gigabit Ethernet ports	48
Uplink interfaces	4 SFP
PoE+power budget	370W
Fanless	N
Dimensions (WxDxH in inches)	17.5 x 13.78 x 1.73
СРИ	ARM v7 800 MHz
DRAM	512 MB
Flash memory	256 MB
Forwarding bandwidth	52 Gbps
Switching bandwidth	104 Gbps
Forwarding rate(64—byte L3 packets)	77.38 Mpps

Product Details

The Cisco Catalyst 1000 Series Switches provides these features:

- * 8, 16, 24, or 48 Gigabit Ethernet data or PoE+ ports with line-rate forwarding
- *2 or 4 fixed 1 Gigabit Ethernet Small Form-Factor Pluggable (SFP)/RJ 45 Combo uplinks or 4 fixed 0 Gigabit Ethernet Enhanced SFP (SFP+) uplinks
- * Perpetual PoE+ support with a power budget of up to 740W
- * CLI and/or intuitive web UI manageability options
- * Network monitoring through sampled flow (sFlow)
- * Security with 802.1X support for connected devices, Switched Port Analyzer (SPAN), and Bridge Protocol Data Unit (BPDU) Guard
- * Compact fanless models available with a depth of less than 13 inches (33 cm)
- *Device management support with over-the-air access via Bluetooth, Simple Network Management Protocol (SNMP), RJ-45, or USB console access
- * Reliability with a higher Mean Time Between Failures (MTBF) and an enhanced limited lifetime warranty support(E-LLW)

Compare to Similar Items

Table 2 shows the comparison.

Product Code	C1000-48FP-4G-L	C1000-48P-4G-L	C1000-48T-4G- L	C1000-48FP- 4X-L	C1000-48P-4X- L	C1000-48T-4X- L
Description	48x 10/100/1000 Ethernet PoE+ ports and 740W PoE budget, 4x 1G SFP uplinks	48x 10/100/1000 Ethernet PoE+ and 370W PoE budget ports, 4x 1G SFP uplinks	48x 10/100/1000 Ethernet ports, 4x 1G SFP uplinks	48x 10/100/1000 Ethernet PoE+ ports and 740W PoE budget, 4x 10G SFP+ uplinks	48x 10/100/1000 Ethernet PoE+ ports and 370W PoE budget, 4x 10G SFP+ uplinks	48x 10/100/1000 Ethernet ports, 4x 10G SFP+ uplinks
Gigabit Ethernet ports	48	48	48	48	48	48
Uplink interfaces	4 SFP	4 SFP	4 SFP	4 SFP+	4 SFP+	4 SFP+
PoE+power budget	740W	370W	\	740W	370W	\
Fanless	N	N	N	N	N	N
Dimensions (WxDxH in inches)	17.5 x 13.78 x 1.73	17.5 x 13.78 x 1.73	17.5 x 10.73 x 1.73	17.5 x 13.78 x 1.73	17.5 x 13.78 x 1.73	17.5 x 10.73 x 1.73
CPU	ARM v7 800 MHz	ARM v7 800 MHz	ARM v7 800 MHz	ARM ∨7 800 MHz	ARM ∨7 800 MHz	ARM ∨7 800 MHz
DRAM	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB
Flash memory	256 MB	256 MB	256 MB	256 MB	256 MB	256 MB
Forwarding bandwidth	52 Gbps	52 Gbps	52 Gbps	88 Gbps	88 Gbps	88 Gbps
Switching bandwidth	104 Gbps	104 Gbps	104 Gbps	176 Gbps	176 Gbps	176 Gbps
Forwarding rate(64—byte L3 packets)	77.38 Mpps	77.38 Mpps	77.38 Mpps	77.38 Mpps	77.38 Mpps	77.38 Mpps

Get More Information

Do you have any question about the C1000-48P-4G-L? Contact us

now via **Live Chat** or sales@gntme.com.

Specification

C1000-48P-4G-L Specification		
Description	48x 10/100/1000 Ethernet PoE+ and 370W PoE budget ports, 4x 1G SFP uplinks	
Gigabit Ethernet ports	48	
Uplink interfaces	4 SFP	
PoE+power budget	370W	
Fanless	N	
Dimensions (WxDxH in inches)	17.5 x 13.78 x 1.73	
Console ports		

USB A port for storage and Bluetooth console 1 Nameory CPU AR84 V7 800 AR≥ DEAM Forwarding bandwidth 52 Abgs Forwarding bandwidth 52 Abgs Switching bandwidth 52 Abgs	RJ-45 Ethernet	1		
Memory processor CPU ARM VF 800 NH2 Potenting bandwidth Forwarding pandwidth \$2 CBp6 Swiftching bandwidth 140 Abps Forwarding rate(64—byte L3 packets) 77.38 Mype Unloast MAC addresses 10000 IPv4 unloast direct routes 642 IPv4 unloast direct routes 256 IPv4 unloast indirect routes 18 IPv4 static routes 16 IPv4 unloast indirect routes 16 IPv4 static routes 1024 IPv4 unloast groups 40 Maximum scrive VLAMs 240 Maximum SPAN sessions 4 </th <th>USB mini-B</th> <th>1</th>	USB mini-B	1		
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DRAM 512 MB Flash memory 266 MB Forwarding bandwidth 62 Gbps Switching bandwidth 104 Gbps Forwarding rate(64—byte L3 packets) 77.38 Mpps Unicast MAC addresses 16000 IPv4 unicast direct routes 542 IPv4 unicast indirect routes 256 IPv6 unicast indirect routes 128 IPv6 unicast indirect routes 16 IPv6 unicast indirect routes 16 IPv6 unicast indirect routes 1024 IPv6 unicast indirect routes 1024 IPv6 unicast indirect routes and IGMP groups 1024 IPv6 uniticast groups 1024 IPv6 multicast groups 1024 IPv6 multicast groups 1024 IPv6 multicast groups 4094 Maximum scriva VLANs 260 VLAN IDs available 4094 Maximum SPA sessions 4 MTU-L3 packet 9198 lytes Jumbo Ethernet frame 10,240 bytes Dying Gasp Yes MTBF in hours (data) 1,	Memory and processor			
Fleath memory 256 MB Forwarding bandwidth 52 Gbps Switching bandwidth 104 Gbps Forwarding rate(64—byte L3 packets) 77.38 Mpps Unicast MAC addresses 16000 IPv4 unicast direct routes 542 IPv5 unicast indirect routes 414 IPv6 unicast indirect routes 128 IPv6 static routes 16 IPv6 static routes 16 IPv6 static routes 1024 IPv6 multicast groups 1024 IPv6 multicast groups 1024 IPv6 multicast groups 1024 IPv6 multicast groups 600 Maximum STP instances 600 Maximum STP instances 4094 Maximum STP instances 4 Maximum STP instances 4 MTU-1.3 packet 9188 bytes Jumbo Ethernet frame 10.240 bytes Dying Gasp 7 MTBF in hours (feb1) 4.452.667 MTBF in hours (Fe)II PoE) 85.529 MTBF in hours (Fe)II PoE) 85.500 dsg C* </th <th>CPU</th> <th>ARM v7 800 MHz</th>	CPU	ARM v7 800 MHz		
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Switching bandwidth 104 Gbps Forwarding rate(64—byte L3 packets) 77.38 Mpps Unicast MAC addresses 16000 IPv4 unicast direct routes 642 IPv6 unicast indirect routes 256 IPv6 unicast indirect routes 128 IPv6 static routes 16 IPv6 static routes 16 IPv6 static routes and IGMP groups 1024 IPv6 multicast groups 1024 IPv6 multicast groups 600 IPv6 security ACEs 600 Maximum active VLANs 256 VLAN IDs available 4004 Maximum STP instances 64 Maximum SPAN sessions 4 MTU-L3 packet 9198 bytes Jumbo Ethernet frame 10,240 bytes Dying Gasp Yes MTEF in hours (data) 1,462,667 MTBF in hours (FoE) 856,329 MTBF in hours (Full PoE) 856,529 Dyerating temperature Seal level -510 50 6eg C*	Performance			
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IPv6 unicast direct routes	IPv4 unicast direct routes	542		
IPv6 unicast indirect routes 128 IPv4 static routes 16 IPv6 static routes 16 IPv6 uniticast groups 1024 IPv6 multicast groups 1024 IPv6 multicast groups 1024 IPv6 multicast groups 1024 IPv6 multicast groups 1024 IPv6 security ACEs 600 IPv6 security ACEs 600 Maximum active VLANs 256 VLAN IDs available 4094 Maximum SPAN sessions 4 MiTU-L3 packet 9198 bytes Jumbo Ethernet frame 10,240 bytes Dying Gasp Yes MTBF in hours (data) 1,452,667 MTBF in hours (PoE) 856,329 MTBF in hours (Full PoE) 856,329 MTBF in hours (Full PoE) 510 50 deg C*	IPv4 unicast indirect routes	256		
IPv4 static routes 16 16 17 17 17 17 17 17	IPv6 unicast direct routes	414		
IPv6 static routes 16 IPv4 multicast routes and IGMP groups 1024 IPv6 multicast groups 1024 IPv6 multicast groups 600 IPv6 Security ACEs 600 Maximum active VLANs 256 VLAN IDs available 4094 Maximum STP instances 64 Maximum SPAN sessions 4 MIU-U-13 packet 9198 bytes Jumbo Ethernet frame 10,240 bytes Dying Gasp Yes MTBF in hours (data) 1,452,667 MTBF in hours (PoE) 856,329 MTBF in hours (Full PoE) 856,329 Operating temperature Seal level -5 to 50 deg C*	IPv6 unicast indirect routes	128		
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IPv6 security ACEs 600 Maximum active VLANs 256 VLAN IDs available 4094 Maximum STP instances 64 Maximum SPAN sessions 4 MTU-L3 packet 9198 bytes Jumbo Ethernet frame 10,240 bytes Dying Gasp Yes MTBF in hours (data) 1,452,667 MTBF in hours (PoE) 856,329 MTBF in hours (Full PoE) 856,329 Environmental Operating temperature Seal level -5 to 50 deg C*	IPv6 multicast groups	1024		
Maximum active VLANs VLAN IDs available 4094 64 Maximum STP instances 64 Maximum SPAN sessions 4 MTU-L3 packet 9198 bytes Jumbo Ethernet frame 10,240 bytes Dying Gasp Yes MTBF in hours (data) MTBF in hours (PoE) 856,329 MTBF in hours (Full PoE) 856,329 Environmental Operating temperature Seal level -5 to 50 deg C*	IPv4/MAC security ACEs	600		
VLAN IDs available 4094 Maximum STP instances 64 Maximum SPAN sessions 4 MTU-L3 packet 9198 bytes Jumbo Ethernet frame 10,240 bytes Dying Gasp Yes MTBF in hours (data) MTBF in hours (PoE) 856,329 MTBF in hours (Full PoE) 856,329 Environmental Operating temperature Seal level -5 to 50 deg C*	IPv6 security ACEs	600		
Maximum STP instances 64 Maximum SPAN sessions 4 MTU-L3 packet 9198 bytes Jumbo Ethernet frame 10,240 bytes Dying Gasp Yes MTBF in hours (data) 1,452,667 MTBF in hours (PoE) 856,329 MTBF in hours (Full PoE) 856,329 Environmental Operating temperature Seal level	Maximum active VLANs	256		
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Jumbo Ethernet frame 10,240 bytes Dying Gasp Yes MTBF in hours (data) 1,452,667 MTBF in hours (PoE) 856,329 MTBF in hours (Full PoE) 856,329 Environmental Operating temperature Seal level -5 to 50 deg C*	Maximum SPAN sessions	4		
Dying Gasp MTBF in hours (data) MTBF in hours (PoE) MTBF in hours (Full PoE) Environmental Operating temperature Seal level Yes 1,452,667 856,329 Environmental -5 to 50 deg C*	MTU-L3 packet	9198 bytes		
MTBF in hours (data) 1,452,667 MTBF in hours (PoE) 856,329 Environmental Operating temperature Seal level -5 to 50 deg C*	Jumbo Ethernet frame	10,240 bytes		
MTBF in hours (PoE) 856,329 MTBF in hours (Full PoE) 856,329 Environmental Operating temperature Seal level -5 to 50 deg C*	Dying Gasp	Yes		
MTBF in hours (Full PoE) 856,329 Environmental Operating temperature Seal level -5 to 50 deg C*	MTBF in hours (data)	1,452,667		
Environmental Operating temperature Seal level -5 to 50 deg C*	MTBF in hours (PoE)	856,329		
Operating temperature Seal level -5 to 50 deg C*	MTBF in hours (Full PoE)	856,329		
	Environmental			
Up to 5,000ft (1500 m) -5 to 45 deg C	Operating temperature Seal level	-5 to 50 deg C*		
	Up to 5,000ft (1500 m)	-5 to 45 deg C		

Upto 10,000 (3000 m)	-5 to 40 deg C			
Operating altitude	10,000 ft (3,000m)			
Operating relative humidity	5% to 90% at 40C			
Storage temperature	-13 to 158F (-25 to 70C)			
Storage altitude	15,000 ft (4500m)			
Storage relative humidit	5% to 95% at 65C			
*Note: 50C operation is supported for short term operation only; GLC-BX-D/U and CWDM optics cannot support 50C operation; Minimum ambient temperature for cold start is at 0C (32F)				
Safety and compliance				
Safety	UL 60950-1 Second Edition, CAN/CSA-C22.2 No. 60950-1 Second Edition, EN 60950-1 Second Edition, IEC 60950-1 Second Edition, AS/NZS 60950-1, IEC 62368-1, UL 62368-1 GB 4943.1-2011			
EMC: Emissions	47CFR Part 15 Class A, AS/NZS CISPR32 Class A, CISPR32 Class A, EN55032 Class A, ICES-003 Class A, VCCI-CISPR32 Class A, EN61000-3- 2, EN61000-3-3, KN32 Class A, CNS13438 Class A			
EMC: Immunity	EN55024 (including EN 61000-4-5), EN300386, KN35			
Environmental	Reduction of Hazardous Substances (RoHS) including Directive 2011/65/EU			
Telco	Common Language Equipment Identifier (CLEI) code			
U.S. government certifications	TBD			
Connectors	and interfaces			
Ethernet interfaces	*10BASE-T ports: RJ-45 connectors, 2-pair Category 3, 4, or 5 Unshielded Twisted Pair (UTP) cabling * 100BASE-TX ports: RJ-45 connectors, 2-pair Category 5 UTP cabling * 1000BASE-T ports: RJ-45 connectors, 4-pair Category 5 UTP cabling *1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Category 5 UTP cabling			
Indicator LEDs	* Per-port status: link integrity, disabled, activity * System status: system			
Console cables	* CAB-CONSOLE-RJ45 Console cable 6 ft. with RJ-45 *CAB-CONSOLE-USB Console cable 6 ft. with USB Type A and mini-B connectors			
Power	*Use the supplied AC power cord to connect the AC power connector to an AC power outlet * Models have external power supply			

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