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Cisco 1100 Terminal Services Gateway

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The Cisco® 1100 Terminal Services Gateway provides up to 72 asynchronous ports on a single-rack-unit form factor, supporting up to 24 Layer 2 switch ports, LTE Advanced 3.0, and high availability using dual power supplies.

Product overview

The compact, high-density Cisco 1100 Terminal Services Gateway (C1100 TSG) with Cisco IOS® XE Software allows secure remote management of a wide variety of networking, compute, Internet of Things (IoT), and other devices. It integrates Layer 2 switching and comprehensive security with the ability to integrate wired and wireless WAN connections (LTE Advanced 3.0) into a single rack unit. The C1100 TSG allows secure authentication (through support for RADIUS or TACACS) of remote users connecting to resources on an internal corporate or private network from Internet-connected devices.

Cloud service providers can deploy the C1100 TSG in data centers to provide secure connectivity to terminal servers, computers, IoT devices, and other networking equipment located in the internal network or behind a firewall. In addition, the gateway supports the Cisco IOS Firewall, IPsec and Network Address Translation (NAT), providing security and protection to all devices that connect to or from the terminal gateway. The C1100 TSG supports centralized and remote management capabilities through web-based tools and Cisco IOS® XE Software for full visibility into and control of network configurations at the remote site.

The Cisco 1100 TSG is available in three models: the C1100TG-1N24P32A (4GB and 8GB DRAM variants available) and C1100TG-1N32A (Figure 1). The base hardware comes with up to 32 RS-232-based asynchronous ports operable up to a maximum 230-Kbps connection per port, and the C1100TG-1N24P32A model supports a 24-port Layer 2 Gigabit Ethernet switch.



Figure 1.
Cisco 1100 Terminal Services Gateway models

Hardware features

Three models of the Cisco 1100 Terminal Services Gateway are available: one with 32 asynchronous ports, a second model with 32 asynchronous ports plus a 24-port Gigabit Ethernet switch and a 8GB DRAM version of the second model providing LAN ports to connect multiple devices. All the models have a Network Interface Module (NIM) slot that supports selected NIMs. The supported NIMs are interchangeable between the Cisco 4000 Series Integrated Services Routers (ISRs) and the Cisco 1100 Terminal Services Gateway.

All the C1100 TSG models come with built-in AC or DC power supplies. The AC powered unit also provides support for High-Voltage DC (HVDC) (with a different input connector). The AC or DC power supply is selectable at the time of ordering but is not field replaceable.

In addition to the 32 onboard asynchronous ports, an optional 16-port asynchronous daughter card may be ordered that takes the onboard density to 48 ports. The NIM slot may additionally be populated with the NIM-16A or NIM-24A module, allowing a maximum of 72 terminal server ports. Customers may use Cisco asynchronous cable (CAB-ASYNC-8) to connect the 72 asynchronous ports to any combination of computing equipment, terminal servers, IoT devices, or networking equipment.

Every C1100 TSG provides two front panel Gigabit Ethernet WAN ports, allowing WAN connectivity to the gateway. Each of the WAN ports can support copper [RJ45] or Fiber Small Form-Factor Pluggable (SFP). The C1100 TSG is supported through the Cisco IOS® XE Software images, providing support for routing and security features (including firewall and IPsec).

Features and benefits

Table 1 highlights some of the features and benefits of the Cisco 1100 Terminal Services Gateway.

Table 1. Cisco 1100 Terminal Services Gateway feature highlights

| Business requirement | Feature/solution |
|--|--|
| Performance <ul style="list-style-type: none"> • Throughput • Service reliability | <ul style="list-style-type: none"> • Concurrent software services at speeds up to 500 Mbps. Backplane architecture supports high-bandwidth front panel-to-module communication. • A distributed multicore architecture. • Support for 100 Mbps IPsec performance. |
| Lower WAN expenditures | <ul style="list-style-type: none"> • Embedded WAN solution for creating lower-cost, business-class Internet connections. |
| Superior and secure user application experiences | <ul style="list-style-type: none"> • Application Experience software bundle with advanced routing and network monitoring services. • Dynamic Multipoint VPN (DMVPN), zone-based firewall, protecting data and providing authentication credentials and transmissions within or connecting to the data center. • Secure Boot feature performs hardware-based authentication of the boot-loader software to prevent malicious or unintended software from booting on the system. • Code signing verifies the digital signatures of executables prior to loading to prevent execution of altered or corrupted code. • Hardware authentication protects against hardware counterfeiting by using onboard tamper-proof silicon, including field-replaceable modules. If authentication fails, the module is not allowed to boot. |
| IT consolidation, space savings, and improved Total Cost of Ownership (TCO) | <ul style="list-style-type: none"> • Single converged branch platform integrates routing, switching, security, and high-speed performance. |
| Business continuity and increased resiliency | <ul style="list-style-type: none"> • Support for integrated (internal) power supplies. A second externally connectable AC power connector is provided, enabling high availability. • Modular interfaces support online removal and insertion (OIR)¹ for module upgrades without network disruption. • Support for multiple, diverse access links: Gigabit Ethernet, asynchronous, and wireless WAN (through LTE Advanced 3.0). |
| Easier manageability and support | <ul style="list-style-type: none"> • Single, universal software image for all features and performance-on-demand licensing flexibility. • No additional services and support needed for compute and storage. • Supported by Cisco and third-party management tools, with programmability and automation. |

¹ OIR follows the same rules as NIM modules on the 4000 Series ISRs. Please refer to the OIR guidelines for the 4000 Series.

Platform architecture

Table 2 lists the primary hardware architectural features and benefits of the Cisco 1100 Terminal Services Gateway. The gateway runs modular Cisco IOS® XE Software, widely deployed in the world's most demanding networks. The software's comprehensive portfolio of services spans multiple technology areas, including security, WAN optimization, application and network Quality of Service (QoS), and embedded management.

Table 2. Architectural highlights

| Architectural features | Benefits/description |
|--|---|
| Multicore processors | <ul style="list-style-type: none"> High-performance multicore processors support high-speed WAN connections. The data plane uses an emulated flow processor (FP) that delivers application-specific integrated circuit (ASIC)-like performance that does not degrade as services are added. |
| Serial port data rates | <ul style="list-style-type: none"> 1200, 2400, 4800, 9600 (default), 19,200, 38,400, 57,600, 115,200, and 230,000 bps Parity: None, even, or odd parity Bit support: 8-bit characters. 1 start bit, 1 stop bit |
| Security support | <ul style="list-style-type: none"> Hardware-based IPsec support, Internet Key Exchange (IKE) v1 and v2, Encapsulating Security Payload (ESP) Encryption: Advanced Encryption Standard (AES) (256/192/128), Triple Data Encryption Standard (3DES), DES Integrity (hash): Secure Hash Algorithm (SHA), SHA-256, SHA-384, SHA-512, Suite B, MD5 HMAC Transport Layer Security (TLS) v1.2, v1.1, and v1.0; Secure Sockets Layer (SSL) v3.0 and v2.0 Secure Shell (SSH) v1 and v2 Diffie Hellman (DH): 768-bit, 1024-bit, 1536-bit, 2048-bit, 3072-bit, and 4096-bit DH groups, 2048-bit DH group with a 256-bit subgroup, and 256-bit and 384-bit Elliptic Curve DH (ECDH). Cert (CA support): X.509 v3, RSA, DSA Authentication, Authorization, and Accounting (AAA): RADIUS, TACACS+ integration with Lightweight Directory Access Protocol (LDAP), Kerberos Simple Network Management Protocol (SNMP) v2, v3 Network perimeter security with integrated application inspection firewall Authentication: RSA (748/1024/2048 bit), ECDSA (256/384 bit) |
| Integrated Gigabit Ethernet ports | <ul style="list-style-type: none"> Provides up to two built-in 10/100/1000 Ethernet ports for WAN or LAN. The 10/100/1000 Ethernet ports can support SFP-based connectivity in addition to RJ45 connections, enabling fiber or copper connectivity. |
| Optional High Availability power supply | <ul style="list-style-type: none"> High availability for power is achieved by using an optional external AC power supply to reduce network downtime and protect the network from power failures. Both power supplies may be connected to the mains. Upon failure of the internal power supply, the external (AC only) power supply automatically takes over. |
| Serial protocol support | <ul style="list-style-type: none"> Point-to-Point Protocol (PPP), Password Authentication Protocol (PAP), and Challenge Handshake Authentication Protocol (CHAP), Serial Line Internet Protocol (SLIP), X.25/ X.25 over TCP (XOT), Layer 2 Tunneling Protocol (L2TP) v3, L2TP Network Server (LNS) |
| Control and flow signals | <ul style="list-style-type: none"> Control signals: Clear to Send (CTS), Request to Send (RTS), Data Terminal Ready (DTR), Data Carrier Detect (DCD) Flow control: XON/XOFF (software), CTS/RTS (hardware) |

| Architectural features | Benefits/description |
|---|---|
| Cisco network interface modules (NIMs)² | <ul style="list-style-type: none"> • A single integrated NIM slot allows for flexible configurations. Refer to Table 4 for supported NIM modules. • The NIM slot offers high-data-throughput capability to the route processor and to the asynchronous interfaces, switch ports. • NIMs support OIR.¹ |
| Flash memory support | <ul style="list-style-type: none"> • Fixed flash memory with support for 4-GB flash; 8-GB flash for the TGX model. • USB Type A 3.0 port (rear side) provides capabilities for storage¹ • USB Type A 2.0 port (front side) provide capabilities for USB dongle. |
| DRAM (DDR4) | <ul style="list-style-type: none"> • The default control-plane memory is 4 GB, • DRAM and flash memory are provided as fixed configuration and are not field replaceable or upgradable. |
| Async cable bracket | <ul style="list-style-type: none"> • One, included with the C1100 TSG for up to 48 ports (32 onboard + 16 on the daughter card) |
| LED support (on chassis) | <ul style="list-style-type: none"> • 6 Async Status, 1 System Status |
| Console/Aux and Ground | <ul style="list-style-type: none"> • 1 Console and 1 Aux port; 1 ground connection (all on the rear panel) |
| Fan support | <ul style="list-style-type: none"> • 3 fans on the rear panel (for C1100TG-1N24P32A). Fans are not field replaceable. • 2 fans on the rear panel (for C1100TG-1N32A). Fans are not field replaceable. |

Product specifications

Table 3 lists the general product specifications for the Cisco 1100 Terminal Services Gateway.

Table 3. Specifications

| Technical specifications | C1100TGX-1N24P32A | C1100TG-1N24P32A | C1100TG-1N32A |
|--|-------------------------|-------------------------|----------------|
| Aggregate throughput (Cisco Express Forwarding) | 500 Mbps | 500 Mbps | 500 Mbps |
| Aggregate throughput (IPsec) | 100 Mbps | 100 Mbps | 100 Mbps |
| Total onboard WAN or LAN 10/100/1000 ports | 2 WAN (GE/SFP) + 24 LAN | 2 WAN (GE/SFP) + 24 LAN | 2 WAN (GE/SFP) |
| RJ45-based ports | 2 WAN (GE/SFP) + 24 LAN | 2 WAN (GE/SFP) + 24 LAN | 2 WAN (GE/SFP) |
| SFP-based ports | 2 | 2 | 2 |
| NIM slots | 1 | 1 | 1 |
| Daughter card | 1x 16-port | 1x 16-port | 1x 16-port |
| OIR (all I/O modules) | Yes for NIMs | Yes for NIMs | Yes for NIMs |

² Unified Communications (UC) license and UC-based NIMs or service modules (SMs) are not supported.

| Technical specifications | C1100TGX-1N24P32A | C1100TG-1N24P32A | C1100TG-1N32A |
|---|---|---|---|
| Default memory DRAM (combined control, services, data planes) - fixed memory; non-upgradable | 8 GB DDR4 | 4 GB DDR4 | 2 GB DDR4 |
| Default flash memory (fixed) | 8 GB | 4 GB | 4 GB |
| External USB 3.0/2.0 slots (type A) | 1 / 1 | 1 / 1 | 1 / 1 |
| Power-supply options³ | Internal AC or DC support | Internal AC or DC support | Internal AC or DC support |
| High availability for power supply | External AC only | External AC only | External AC only |
| AC input voltage | 100 to 240V AC autoranging | 100 to 240V AC autoranging | 100 to 240V AC autoranging |
| DC input voltage | | | |
| Input voltage | 48 to 60V | 48 to 60V | 48 to 60V |
| Input current | 4.2A | 4.2A | 4.2A |
| HVDC power supply unit⁴ | | | |
| Input voltage | 180 to 240V | 180 to 240V | 180 to 240V |
| Input current | 0.9A | 0.9A | 0.9A |
| AC input frequency | 50 to 60 Hz | 50 to 60 Hz | 50 to 60 Hz |
| AC input current, AC power supply (maximum) | 1.6A | 1.6A | 1.6A |
| AC input surge current | 1.2/50 us, 1kV L-N/2kV L-PE and N-PE | 1.2/50 us, 1kV L-N/2kV L-PE and N-PE | 1.2/50 us, 1kV L-N/2kV L-PE and N-PE |
| Typical power (no modules) | 50W | 48W | 30W |
| Maximum power with AC power supply | 110W (no PoE) | 110W (no PoE) | 80W (no PoE) |
| Maximum power with DC power supply | 110W (no PoE) | 110W (no PoE) | 80W (no PoE) |
| Dimensions (H x W x D) | 1.73 x 17.5 x 12 in. 44 x 444 x 305 mm | 1.73 x 17.5 x 12 in. 44 x 444 x 305 mm | 1.73 x 17.5 x 12 in. 44 x 444 x 305 mm |

³ Power supply is chosen at the time of ordering and is not field replaceable.

⁴ The same power supply provides both AC and HVDC power. Choose appropriate power cords at the time of ordering.

| Technical specifications | C1100TGX-1N24P32A | C1100TG-1N24P32A | C1100TG-1N32A |
|---|---|---|---|
| External power supply dimensions (H x W x D) | 2.9 x 1.2 x 6.1 in. 75 x 30 x 155 mm | 2.9 x 1.2 x 6.1 in. 75 x 30 x 155 mm | 2.9 x 1.2 x 6.1 in. 75 x 30 x 155 mm |
| Shipping box dimensions (L x W x D) | 23.2 x 17.7 x 8.0 in. 589 x 449 x 203 mm | 23.2 x 17.7 x 8.0 in. 589 x 449 x 203 mm | 23.2 x 17.7 x 8.0 in. 589 x 449 x 203 mm |
| Rack height | 1 rack unit | 1 rack unit | 1 rack unit |
| Rack-mount 19 in. (48.3 cm) EIA | Included | Included | Included |
| Rack-mount 23 in. (58.4 cm) EIA | Optional (no NEBS) | Optional (no NEBS) | Optional (no NEBS) |
| Wall-mount | No | No | No |
| Weight with internal power supply (no modules), DC PSU | 9.47 lb 4.29 kg | 9.47 lb 4.29 kg | 8.8 lb 3.99 kg |
| Typical weight (fully loaded with modules), DC PSU | 10.1 lb 4.6 kg | 10.1 lb 4.6 kg | 9.4 lb 4.29 kg |
| Weight with Internal power supply (no modules), AC PSU | 9.98 lb 4.52 kg | 9.98 lb 4.52 kg | 9.31 lb 4.22 kg |
| Typical weight (fully loaded with modules), AC PSU | 10.64 lb 4.82 kg | 10.64 lb 4.82 kg | 9.98 lb 4.52 kg |
| Weight with Internal power supply (no modules), HVDC PSU | 9.98 lb 4.52 kg | 9.98 lb 4.52 kg | 9.31 lb 4.22 kg |
| Typical weight (fully loaded with modules), HVDC PSU | 10.64 lb 4.82 kg | 10.64 lb 4.82 kg | 9.98 lb 4.52 kg |
| Packaging weight | 14.0 lb 6.35 kg | 14.0 lb 6.35 kg | 14.0 lb 6.35 kg |
| Airflow | I/O side to fan side | I/O side to fan side | I/O side to fan side |
| Mean Time Between Failures (MTBF) (hours) at 25° C | 718,947 hours | 739,252 hours | 739 252 hours |
| Temperature | 32° to 104° F 0° to 40° C | 32° to 104° F 0° to 40° C | 32° to 104° F 0° to 40° C |
| Altitude (China) | 0 to 6560 ft 0 to 2000 m | 0 to 6560 ft 0 to 2000 m | 0 to 6560 ft 0 to 2000 m |

| Technical specifications | C1100TGX-1N24P32A | C1100TG-1N24P32A | C1100TG-1N32A |
|---|---|---|---|
| Altitude (rest of the world) | 0 to 10,000 ft 0 to 3050 m | 0 to 10,000 ft 0 to 3050 m | 0 to 10,000 ft 0 to 3050 m |
| Altitude (NEBS) | -200 to 13,000 ft at 40° C | -200 to 13,000 ft at 40° C | -200 to 13,000 ft at 40° C |
| Relative humidity | 5% to 85% | 5% to 85% | 5% to 85% |
| Short-term humidity | 5% to 95% | 5% to 95% | 5% to 95% |
| Acoustics: Sound pressure (typical/maximum) | 45 dBA/71 dBA | 45 dBA/71 dBA | 45 dBA/71 dBA |
| Acoustics: Sound power (typical/maximum) | 4.8 Bel/8.5 Bel | 4.8 Bel/8.5 Bel | 4.8 Bel/8.5 Bel |
| Temperature (nonoperating) | -40° to 158°F (-40° to 70° C) | -40° to 158°F (-40° to 70° C) | -40° to 158°F (-40° to 70° C) |
| Relative humidity (nonoperating) | 5% to 95% | 5% to 95% | 5% to 95% |
| Altitude (nonoperating) | 15,584 ft (4750 m) | 15,584 ft (4750 m) | 15,584 ft (4750 m) |
| Safety | UL 60950-1 CAN/CSA C22.2 No. 60950-1 EN 60950-1 AS/NZS 60950.1 IEC 60950-1 GB-4943 UL 62368-1 CAN/CSA C22.2 No. 62368-1 EN 62368-1 AS/NZS 62368.1 IEC 62368-1 | UL 60950-1 CAN/CSA C22.2 No. 60950-1 EN 60950-1 AS/NZS 60950.1 IEC 60950-1 GB-4943 UL 62368-1 CAN/CSA C22.2 No. 62368-1 EN 62368-1 AS/NZS 62368.1 IEC 62368-1 | UL 60950-1 CAN/CSA C22.2 No. 60950-1 EN 60950-1 AS/NZS 60950.1 IEC 60950-1 GB-4943 UL 62368-1 CAN/CSA C22.2 No. 62368-1 EN 62368-1 AS/NZS 62368.1 IEC 62368-1 |

| Technical specifications | C1100TGX-1N24P32A | C1100TG-1N24P32A | C1100TG-1N32A |
|------------------------------|--|---|---|
| EMC | ICES-003 Class A EN55022 Class A CISPR22 Class A AS/NZS 3548 Class A VCCI V-3 CNS 13438 EN 300-386 EN 61000 (Immunity) EN 55024, CISPR 24 EN50082-1 KN22, KN24 | ICES-003 Class A EN55022 Class A CISPR22 Class A AS/NZS 3548 Class A VCCI V-3 CNS 13438 EN 300-386 EN 61000 (Immunity) EN 55024, CISPR 24 EN50082-1 KN22, KN24 | ICES-003 Class A EN55022 Class A CISPR22 Class A AS/NZS 3548 Class A VCCI V-3 CNS 13438 EN 300-386 EN 61000 (Immunity) EN 55024, CISPR 24 EN50082-1 KN22, KN24 |
| Telecom | TIA-968-B CS-03 ANSI T1.101 ITU-T G.823, G.824 IEEE 802.3 RTTE Directive Homologation requirements vary by country and interface type. For specific country information, refer to the online approvals data base at: https://www.ciscofax.com/ . | TIA-968-B CS-03 ANSI T1.101 ITU-T G.823, G.824 IEEE 802.3 RTTE Directive Homologation requirements vary by country and interface type. For specific country information, refer to the online approvals data base at: https://www.ciscofax.com/ . | TIA-968-B CS-03 ANSI T1.101 ITU-T G.823, G.824 IEEE 802.3 RTTE Directive Homologation requirements vary by country and interface type. For specific country information, refer to the online approvals data base at: https://www.ciscofax.com/ . |
| NEBS | GR-1089-CORE GR-63-CORE | GR-1089-CORE GR-63-CORE | GR-1089-CORE GR-63-CORE |
| Cisco IOS XE Software | | | |
| Protocols | IPv4, IPv6, static routes, Routing Information Protocol (RIP) v1 and v2, Open Shortest Path First (OSPF), Enhanced IGRP (EIGRP), Border Gateway Protocol (BGP), BGP Router Reflector, Multicast Internet Group Management Protocol (IGMP) v3, Protocol Independent Multicast sparse mode (PIM SM), PIM Source Specific Multicast (SSM), Embedded Event Manager (EEM), IKE, Access Control Lists (ACL), Dynamic Host Configuration Protocol (DHCP), DNS, Hot Standby Router Protocol (HSRP), RADIUS, AAA, Multiprotocol Label Switching (MPLS), IPsec, L2TPv3, Bidirectional Forwarding Detection (BFD) | | |
| Encapsulations | Generic routing encapsulation (GRE), Ethernet, 802.1q VLAN, PPP, Serial (RS-232, X.25/XOT) | | |
| Traffic management | QoS, Class-Based Weighted Fair Queuing (CBWFQ), Weighted Random Early Detection (WRED), Hierarchical QoS | | |

Interfaces and modules supported

The Cisco 1100 Terminal Services Gateway provides a single NIM slot that supports a factory-installed single 16-port async terminal server card. The NIM slot can additionally support only the NIMs listed in Table 4.

Table 4. NIMs supported

| Category | Modules |
|-----------------------------|----------------------------|
| Ethernet modules | NIM-ES2-4 NIM-ES2-8 |
| Wireless WAN modules | NIM-LTEA-EA NIM-LTEA-LA |
| Async modules | NIM-16A NIM-24A |

Redundant power supply architecture

All C1100 TSG models provide for high availability for the power supply. The primary power supply is internal to the platform and may be ordered as an AC, DC or HVDC power supply. A second AC-only power supply may be connected to the platform as a redundant power supply. The two power supplies may be connected to the mains to provide for power redundancy. The internal power supply (AC, DC, or HVDC) acts as the primary power supply, while the external AC power supply automatically takes over upon the failure of the primary (internal) power supply.

Network Equipment Building System (NEBS) support

All C1100 TSG models (19-inch rack kit only) are certified for Level 3 of NEBS (Telcordia SR-3580 Level 3) while operating with a DC or AC power supply. When operating with the external AC power supply, the C1100 TSG is not certified for NEBS compliance. Please refer to Table 3 for more details.

Smart Software Licensing support

The C1100 TSG supports Smart Licensing by default. When ordering the C1100 TSG, customers must provide a Smart Account. All optional licenses purchased with the C1100 TSG will be deposited into the respective Smart or Virtual Account combination provided at the time of the order. Specific License Reservation (SLR) and factory installation of licenses ordered through SLR are supported on these platforms.

Smart Software Manager (SSM) is a simplified license management system that delivers visibility into customer license ownership and consumption. Licenses are managed through SSM, a central Cisco Smart License cloud portal. The cloud portal maintains an account of what the customer has bought and what they are using, thus alerting the customer if they go out of compliance. Customers can determine what licenses they own and how they are being used. Customers benefit from being able to pool available licenses, providing for more straightforward license usage across like platforms and thus decreasing operating costs.

Cisco IOS Software licensing and packaging

Universal Cisco IOS XE image

A single Cisco IOS XE Universal image encompassing all functions is delivered with the platform. Advanced features can be enabled simply by activating a software license on the Universal image. Technology packages and feature licenses, enabled through right-to-use licenses, simplify software delivery and decrease the operational costs of deploying new features.

Three major technology licenses are available on the Cisco 1100 Terminal Services Gateway; these licenses can be activated through the Cisco software activation process described at <https://www.cisco.com/go/sa>. The following licenses are available:

- IP Base: This technology package is available as the default.
- Application Experience (APP): This license includes data and application performance features.
- Security (SEC). This license includes features for securing network infrastructure.

The C1100 TSG supports Smart Licensing by default. All orders will require a Smart Account to be provided where the SEC and APP licenses will be deposited.

Ordering information

The C1100 TSG models may be ordered with the optional module and power supplies. To place an order, refer to Table 5 and visit the [Cisco Ordering homepage](#).

Table 5. Ordering information

| Product ID | Product description |
|--------------------------|--|
| C1100TG-1N32A | Cisco 1100 Terminal Services Gateway w/ 32 Async, 1 NIM (support for 2G DRAM) |
| C1100TG-1N24P32A | Cisco 1100 Terminal Services Gateway w/ 32 Async, 24-layer 2 switch Port, 1 NIM with support for 4G DRAM |
| C1100TGX-1N24P32A | Cisco 1100 Terminal Services Gateway w/ 32 Async, 24-layer 2 switch Port, 1 NIM with support for 8G DRAM |
| C1100TG-16A | 16-port Async Module for Cisco 1100 Terminal Services Gateway |

Table 6. Licensing information

| Product ID | Product description |
|-------------------------|---|
| SL-1100TG-APP-K9 | Application Experience License for Cisco 1100 Terminal Services Gateway |
| SL-1100TG-SEC-K9 | Security License for Cisco 1100 Terminal Services Gateway |

Table 7. Power supply options

| Product ID | Product description |
|-----------------|---|
| PWR-1100TG-AC | AC Power Supply for Cisco 1100 Term Gateway (Internal) ⁵ |
| PWR-1100TG-DC | DC Power Supply for Cisco 1100 Term Gateway (Internal) ³ |
| PWR-1100TG-HVDC | HVDC Power Supply for Cisco 1100 Term Gateway (Internal) ³ |
| PWR-4320-AC | AC Power Supply for Cisco ISR 4320 (External) ⁶ |

Table 8. Rack-mount kit options

| Product ID | Product description |
|----------------|---|
| ACS1100TG-RM19 | Rack Mount Kit for Cisco 1100TG (19-inch and default) |
| ACS1100TG-RM23 | Rack Mount Kit for Cisco 1100TG (23-inch) |

Warranty information

The Cisco 1100 Terminal Services Gateway has a 90-day limited liability warranty.

Cisco and partner services for console services

Services from Cisco and our certified partners help you transform your network and data center, helping you accelerate business innovation and growth. We have the expertise to create a clear, replicable, optimized footprint across technologies. Planning and design services align technology with your business goals and can increase deployment efficiency. Technical services help you improve operational efficiency, save money, and mitigate risk. Optimization services help you continuously improve performance and succeed with new technologies. For more information, please visit <https://www.cisco.com/go/services>.

Cisco Smart Net Total Care[®] technical support for the Cisco 1100 Terminal Services Gateway is available on a one-time or annual contract basis. Support options range from help-desk assistance to proactive, onsite consultation. All support contracts include:

- Major Cisco IOS Software updates for protocol, security, bandwidth, and feature improvements
- Full access rights to Cisco.com technical libraries for technical assistance, electronic commerce, and product information
- Access 24 hours a day to the industry's largest dedicated technical support staff

⁵ Internal power supplies are not field replaceable.

⁶ External power supply is for High Availability.

Cisco environmental 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 | Materials |
| Information on electronic waste laws and regulations, including products, batteries, and packaging | WEEE compliance |

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

Cisco Capital

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For more information

For more information about the Cisco 1100 Terminal Services Gateway, visit [Cisco.com/go/1100tsg](https://www.cisco.com/go/1100tsg) or contact your local Cisco account representative.

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