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Cisco 1100 Terminal Services Gateway

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The Cisco® 1100 Terminal Services Gateway provides a high-density, compact form factor for asynchronous (RS-232) interfaces to enable console configuration and management for cloud and enterprise data centers. With an optional Layer 2 Gigabit Ethernet switch, it addresses the growing need for console configuration and setup of compute, network, and IoT base equipment. A Network Interface Module (NIM) provides support for NIMs supported on the Cisco 4000 Series Integrated Services Routers (ISRs).

The Cisco 1100 Terminal Services Gateway is available with optional AC, DC, and High-Voltage DC (HVDC) power supplies. It supports a default internal power supply and an external power supply that provides redundancy and High Availability in the event that the internal power supply fails.

Ordering the Cisco 1100 Terminal Services Gateway

The Cisco 1100 Terminal Services Gateway is available in three models. Both the C1100TG-1N24P32A and C1100TGX-1N24P32A models offer a 24-port Gigabit Ethernet switch. The C1100TG-1N32A model is available without the 24-port switch.

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Table 1 lists the part numbers for the Cisco 1100 Terminal Services Gateway.

Table 1.   Part numbers and descriptionsl

Part number	Product description
C1100TG-1N32A	Cisco 1100 Terminal Services Gateway w/ 32 Async, 1 NIM (support for 2 GB DRAM)
C1100TG-1N24P32A	Cisco 1100 Terminal Services Gateway w/ 32 Async, 24-port Layer 2 switch, 1 NIM (support for 4 GB DRAM)
C1100TGX-1N24P32A	Cisco 1100 Terminal Services Gateway w/ 32 Async, 24-port Layer 2 switch, 1 NIM (support for 8 GB DRAM)
C1100TG-16A	16-port Async Module for Cisco 1100 Terminal Services Gateway

You can order the Cisco 1100 Terminal Services Gateway with a second external power supply that may be configured for power-supply redundancy. The primary power supply may be AC, DC, or HVDC. The 1100TSG also has a (proprietary) 6-pin power connector to connect the external AC power supply.

You can order the external power supply listed in Table 2 with the system or as a spare. The internal AC power supply is operated through a C13 or C14 power connector, whereas the external power supply is operated through a C5 power connector/cable combination. The internal power supplies are not field replaceable and hence cannot be ordered as a spare – the power supplies are prefitted as DC or AC at manufacturing.

Table 2.   Power supply options (offered with the system and as spares)

Platform	Part number	Description
C1100TG-1N32A C1100TG-1N24P32A C1100TGX-1N24P32A	PWR-1100TG-AC	AC Power Supply for Cisco 1100 Term Gateway (Internal)[1]
	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)[2]

[1] Internal Power Supplies are not field replaceable.

[2] The external power supply is for High Availability.

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The PWR-4320 is an optional external power supply that connects to the external 6-pin connector on the outside and is available only as an AC power supply. The C1100 TSG may be purchased as a AC + AC combination or an AC (external) + DC (internal power supply) combination. The internal power supplies are not field replaceable.

Table 3.   Part numbers and descriptions

Platform	Description
C1100TG-1N32A	2 GB of DRAM (fixed and not field upgradeable)
C1100TG-1N24P32A	4 GB of DRAM (fixed and not field upgradeable)
C1100TGX-1N24P32A	8 GB of DRAM (fixed and not field upgradeable)

Ordering optional items

Each Cisco 1100 Terminal Services Gateway ships with a default accessory kit consisting of:

· 19-inch rack-mount brackets

· Regulatory and Compliance Safety Information (RCSI) guide

The default accessory kit does not include any Category 5 RJ45 Ethernet cables or cables for the gateway console or auxiliary port. You can order the console and auxiliary cables as an option during configuration or later as spares.

You may order the 23-inch rack-mount brackets, blank faceplates for module slots, and slot dividers as spares. Table 4 lists the part numbers for these items.

Table 4.   Cables, rack-mount brackets, and blank faceplates

Part number	Description
ACS1100TG-RM19	Rack Mount Kit for Cisco 1100TG (19 Inch)
ACS1100TG-RM23 (=)	Rack Mount Kit for Cisco 1100TG (23 Inch) (= implies Spare)
C1100TG-BLANK (=)	Blank Panel for Cisco 1100TG (= implies Spare)
CAB-CONSOLE-RJ45	Console Cable 6ft with RJ45 and DB9F (both system and spare)
CAB-AUX-RJ45	Auxiliary Cable 8ft with RJ45 and DB25M (both system and spare)
CAB-CONSOLE-USB	Console Cable 6ft with USB Type A and mini-B connectors (both system and spare)
NIM-BLANK=	Blank faceplate for NIM slot on Cisco ISR 4000

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In addition to the accessories listed above, the Cisco 1100 Terminal Services Gateway supports the following NIMs in the NIM slot.

Table 5.   Supported NIMs

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

Ordering Cisco IOS Software images and licenses

The Cisco 1100 Terminal Services Gateway delivers innovative technologies running on the industry-leading Cisco IOS Software network operating system.

The unit ships with a Universal Cisco IOS Software image that contains all the features available for use on the gateway. A specific feature set is activated by using technology package licenses, such as Security or Application Experience licenses.

The Cisco1100 Terminal Services Gateway supports two types of Universal images:

- Universal images with **universalk9** in the image name: This Universal image offers all the Cisco IOS Software features, including strong payload cryptography features such as IP Security VPN (IPsec VPN) and Secure Unified Communications.
- Universal images with **universalk9_npe** in the image name: The strong control of encryption capabilities by Cisco Software Activation helps meet U.S. export control requirements for cryptography. However, some countries have import requirements that require that the platform not support any strong payload cryptography. To satisfy the import requirements of those countries, Cisco allows you to order the unit with an Non-Payload Encryption (NPE) Universal image. The NPE image does support security features such as zone-based firewall and intrusion prevention through the SECNPE-K9 license. Table 6 lists part numbers for Universal Cisco IOS Software images for the Cisco 1100 Terminal Services Gateway.

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Table 6. Part numbers for Universal Cisco IOS Software images (for Cisco IOS XE Software Release 17.2)

Platform	Part number	Description
C1100TG-1N32A C1100TG-1N24P32A C1100TGX-1N24P32A	SC1100TGUK9-172	Cisco IOS Universal Image for 1100TG

By default, all platforms bundles include the IP Base license. You can order the gateway from the factory with technology licenses preinstalled, using the paper license part numbers (those that start with **SL**). Alternatively, if you plan to deploy the advanced technology features later, you may order the required licenses as spares. You may order spares for technology licenses as paper licenses or e-delivery licenses (those that start with **SL**).

You can use the Security license to activate the advanced security features offered. You may order these part numbers only for the Universal image that supports payload cryptography. The product supports a maximum of only 1000 secure tunnels and 100 Mbps of crypto bandwidth. You can use the Application Experience license to activate the Cisco Application Experience features offered on the gateway.

The license part numbers are listed in Table 7.

Table 7. Licenses (maps to both types of Universal images)

Platform	Description
SL-1100TG-IPB-K9	IP Base License (Paper) for Cisco 1100 Series Terminal Gateway
SL-1100TG-SEC-K9 (=)	Security (SEC) License (Paper) for Cisco 1100 Series Terminal Gateway
SL-1100TG-APP-K9 (=)	Application Experience (APP) License (Paper) for Cisco 1100 Series Terminal Gateway

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Cisco and partner services for the branch office

Transform the branch-office experience and accelerate business innovation and growth using intelligent, personalized services from Cisco and our partners. We have the depth and breadth of expertise to create a clear, replicable, optimized branch-office footprint across technologies. Planning and design services align technology with business goals and can increase the accuracy, speed, and efficiency of deployment. Technical services help improve operational efficiency, save money, and mitigate risk. Optimization services are designed to continuously improve performance and help your team succeed with new technologies.

Technical services available for the Cisco 1100 Terminal Services Gateway

- **Cisco Smart Net Total Care Service** provides comprehensive technical support services for the Cisco 1100TSG units, Cisco IOS Software and feature licenses, and modules. Cisco Smart Net Total Care Service includes advance hardware replacement, OS updates, online tools and resources, and Cisco Technical Assistance Center (TAC) support.
- **Cisco Application Support plus Upgrades (SASU)** provides technical support services, including updates and upgrades for any Cisco software application running on the container on the 8-GB DRAM-based platform.

Table 8 lists the Cisco technical services needed for various use cases.

Table 8.   Technical services use cases

If you buy a Cisco 1100TSG system with	You need
Any Cisco IOS Software, including technology or feature licenses for Cisco IOS Software	Cisco Smart Net Total Care Service
Any modules, including all NIMs	Cisco Smart Net Total Care Service
An application running on a container on the 8-GB memory SKUs	Cisco Smart Net Total Care Service + SASU
A security or Application Experience feature set	Cisco Smart Net Total Care Service

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Additional information and contacts

To obtain current information about prices for products in the Cisco 1100 Terminal Services Gateway portfolio, please refer to the Cisco price list at https://www.cisco.com/en/US/ordering/index.shtml.

For more information about the Cisco 1100 Terminal Services Gateway, visit https://www.cisco.com/c/en/us/products/cloud-systems-management/terminal-services-gateways/index.html

For more information about Cisco Technical Services, visit https://www.cisco.com/go/