

# IE-2000-16T67P-G-E Datasheet

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## Overview

IE-2000-16T67P-G-E is a Cisco IE 2000 IP67 series switch, providing 16 100 MB D-code and 2 GE X-code ports. Cisco® Industrial Ethernet (IE) 2000 IP67 Series is Cisco's first ruggedized switching platform that complies with the most demanding IP67 industrial standards. It also provides everything you've come to expect from the global leader in Internet Protocol (IP) networking: easy integration with the rest of your network, reliability, rock-solid performance, and world-class support. Now, those advantages and Cisco IOS® Software features extend all the way to the factory floor, rail yard, or other industrial site, even in the harshest environments. So you can finally fulfill the promise of network convergence—across both Information Technology (IT) and Operations Technology (OT) environments—with one supplier.

## Quick Spec

Table 1 shows the quick spec.

<b>Model</b>	IE-2000-16T67P-G-E
<b>Total Ports</b>	18
<b>100 MB D-code</b>	16
<b>GE X-code ports</b>	2
<b>Manufacturing license</b>	LAN Base
<b>IEEE1588</b>	Yes
<b>NAT</b>	Yes*
<b>PoE (+)</b>	Yes
<b>Dimensions (H x W x D)</b>	9.5" x 11.84" x 3.2" (241.7 x 300.7 x 81.5 mm)
<b>Weight</b>	7.28 lbs. (3.30 kg)

\*Requires LAN Base to LAN Enhanced image (enables Layer 2 NAT)

## Product Details

Table 2 shows the highlights of the IE 2000 IP67 series switches.

<b>Feature</b>	<b>Description/benefit(s)</b>
<b>Certified IP67 rating</b>	The solution is IP67-rated to protect against dust and submersion in water. It meets the most rigorous industrial and safety standards for extreme temperature and vibration, humidity, electromagnetic emissions, and other factors.
<b>Compliant with industrial automation standards</b>	The rugged switch supports EtherNet/IP (CIP) and PROFINET so you can easily integrate it with any Ethernet-based industrial equipment and management system. It also supports Precision Time Protocol (PTP) v2 for demanding synchronized applications.
<b>Easy deployment</b>	With zero-touch discovery using Dynamic Host Control Protocol (DHCP), express setup, and sub-60-second boot-up times, you can easily migrate to all-IP-over-Ethernet networking environment.
<b>Strong endpoint security</b>	Support for the following: <ul style="list-style-type: none"><li>• 802.1x</li><li>• Port security</li><li>• Dynamic port-based authentication using DHCP</li><li>• Encrypted administrative traffic</li><li>• Centralized authentication</li></ul>
<b>Resiliency</b>	Cisco brings recovery mechanisms such as flex links and Cisco Resilient Ethernet Protocol (REP) to the factory floor or other industrial site. Profinet MRP ring provides the open standard industrial resiliency.

<b>Manageability</b>	Cisco DNATM Center enables centralized automation and assurance at scale with a DNA Essentials 3- or 5-year term-based subscription license. ●The solution is easy for operations staff to configure and manage. Cisco Auto Smart Port lets you configure the right Quality of Service (QoS) settings for any port in seconds. It also allows for secure web-based administration and easy integration with your network management system.
<b>Network Address Translation (NAT)</b>	The switches provide line-rate, hardware-enabled static address translation to easily connect complex Layer- 2/machine node networks.
<b>Industrial Power-over-Ethernet (PoE)</b>	Select switch models let you connect and power endpoints with a single cable in compliance with PoE and PoE+ standards.
<b>Removable SD flash memory</b>	With tightly secured swappable hard drives, you can quickly replace switches in the field with minimal disruption.
<b>Platform flexibility</b>	The Cisco IE2000 IP67 Series is available with 8, 16, or 24 10/100 Base-T, fixed-configuration Ethernet ports and 2x Gigabit Ethernet ports. It provides M12 D Coded, X Coded, and a mini-change dual-power connector in an industrial-hardened, wall-mountable form factor.

## Supported Products

Table 3 shows the supported products.

Model	Description
PWR-IE160W-67-DC=	IP67-rated PoE DC-DC power supply, Input:18V-60V Output: 54V, 3.1A max 160W
PWR-IE180W-67-AC=	IP67-rated PoE AC-DC power supply, input 85-264VAC/88-300VDC, Output 54V, 3.1A max, 180Watts
SD-IE-1GB	1GB SD Memory Card
IE-LICENSE-SPARE	Spare license for software upgrade (L2 to L3 features, MRP ring, etc)
IE2000-B-E=	IE2000 LAN Base to Enhanced LAN Base Paper NAT License to Enable NAT Capability
LIC-MRP-MANAGER=	MRP ring Manager license
LIC-MRP-CLIENT=	MRP ring Client license
LIC-IE2000-IP-L=	Field upgradable IE2000 LAN Base to IP Lite license
CAB-CONSOLE-M12=	Console Cable 6ft with M12 and DB9F for IE2000IP67 Switch

## Compare to Similar Items

Table 4 shows the comparison.

PID	Total ports	100 MB D-code	GE X-code ports	Manufacturing license	IEEE1588	NAT	PoE (+)
IE-2000-8T67-B	8	8		LAN Base			
IE-2000-16T67-B	16	16		LAN Base			
IE-2000-24T67-B	24	24		LAN Base			
IE-2000-8T67P-G-E	10	8	2 GE	LAN Base	X	X*	X
IE-2000-16T67P-G-E	18	16	2 GE	LAN Base	X	X*	X

\*Requires LAN Base to LAN Enhanced image (enables Layer 2 NAT)

## Get More Information

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# Specification

## IE-2000-16T67P-G-E Specification

<b>Total Ports</b>	18
<b>100 MB D-code</b>	16
<b>GE X-code ports</b>	2 GE
<b>Manufacturing license</b>	LAN Base
<b>IEEE1588</b>	Yes
<b>NAT</b>	Yes
<b>PoE (+)</b>	Yes
<b>Dimensions (H x W x D)</b>	9.5" x 11.84" x 3.2" (241.7 x 300.7 x 81.5 mm)
<b>Weight</b>	7.28 lbs. (3.30 kg)
<b>Hardware</b>	<ul style="list-style-type: none"><li>• 256MB DRAM with ECC memory</li><li>• IEEE 1588v2 FPGA</li><li>• 64MB on-board flash memory</li><li>• 1GB removable SD flash memory card (optional)</li></ul>
<b>Alarm</b>	<ul style="list-style-type: none"><li>• Alarm-one alarm output relay using an M12 A Coded 5 Pin connector (Max. rated: 24VDC @ 1A/48VDC @ 0.5A)</li></ul>
<b>Input voltage supported</b>	<ul style="list-style-type: none"><li>• with PoE: 44-57VDC, with PoE+ 50-57VDC</li><li>• PWR-IE160W-67-DC=: 18-60VDC, 12A</li></ul>
<b>Power rating</b>	<ul style="list-style-type: none"><li>• 0.2KVA</li></ul>
<b>Power consumption</b>	<ul style="list-style-type: none"><li>• 137-150W</li></ul>
<b>Connectors and cabling</b>	Data cable <ul style="list-style-type: none"><li>• Copper 100 Base-T M12 D coded 4-pole (pin) cable connector</li><li>• Copper GE M12 X coded-8-pole (pin)-cable connector</li></ul> Alarm cable <ul style="list-style-type: none"><li>• M12 A-Coded 5-Pin Cable</li></ul> Console cable <ul style="list-style-type: none"><li>• M12 A Coded 5-Pin connector</li></ul> Power supply cables <ul style="list-style-type: none"><li>• Power cable for power source, Mini-Change A-Size single-ended cord set, 4 poles, female to pigtail, 16 AWG PVC cable.</li><li>• Power cable to IE2000 IP67 switch: Mini-Change A-size double-Ended Cordset, 4 poles male to female. 16 AWG, TPE cable.</li><li>• Power cable for AC-DC power source, Mini-change A-size single-ended cord set, 3 pins, female insert on one end to pigtail, 16 AWG PVC cable.</li><li>• Power cord from power source to power supply: 2 hole female power cord to open for input DC connector.</li></ul>
<b>Operating temperature</b>	<ul style="list-style-type: none"><li>• -40°C to +75°C</li><li>• -40°C to +70°C (vented enclosure operating)</li><li>• -40°C to +60°C (sealed enclosure operating)</li><li>• -34°C to +75°C (200 LFM or more fan- or blower-equipped enclosure operating)</li><li>• -40°C to +85°C (type tested to +85°C for 16 hours)</li><li>• Altitude: Up to 13,800 feet (4570 meters)</li></ul>
<b>Storage Temperature</b>	<ul style="list-style-type: none"><li>• -40°C to +85°C</li><li>• IEC 60068-2-14</li><li>• Altitude: Up to 13,800 feet or 4,200 meters</li></ul>
<b>MTBF</b>	<ul style="list-style-type: none"><li>• Mean time between failures: 374,052 hours (42.7 years)</li></ul>

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