

# IE-2000U-16TC-GP Datasheet



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## Overview

IE-2000U-16TC-GP is a Cisco IE 2000U series switch, providing 16 x 10/100,2 T/SFP GE ports with 1588, PoE. The Cisco Industrial Ethernet (IE) 2000U Switches are compact switches for the harsh, rugged environments often found in the energy and utility industries. IE 2000U switches support the communications needs of the utility- and customer-owned energy-delivery infrastructure across distributed generation, transmission, and distribution sectors. This infrastructure includes substation applications supporting electrical transmission and distribution, renewable generation, oil and gas, water, distributed generation, cogeneration, and trackside operations.

## Quick Spec

Table 1 shows the quick spec.

<b>Model</b>	<b>IE-2000U-16TC-GP</b>
<b>Total Ports</b>	18
<b>RJ45 Ports</b>	16 FE
<b>Combo Ports</b>	2 GE
<b>Software</b>	LAN Base
<b>IEEE 1588</b>	Yes
<b>PRP</b>	Yes
<b>PoE</b>	Yes

## Product Details

Cisco IE 2000U Series Switches are designed for DIN rail mounting, low port counts, and small sizes. They offer:

- Four, eight, or 16 Fast Ethernet ports (either SFP (Small Form-Factor Pluggable) or 100BaseT RJ45 downlinks depending on the model); fixed configurations with a compact form factor
- Two Gigabit Ethernet uplink ports (SFP, RJ45 or combo) and up to 2 additional FE uplinks depending on model
- IEC-62439-3: Parallel Redundancy Protocol support on 8 and 16 port models
- Dual-input DC power supply, alarm relays, DIN rail mount
- Swappable SD flash card required and included
- Mini-USB and traditional serial console connector
- Substation environmental compliance and certifications: IEC-61850-3 and IEEE 1613
- Conformal coating available on specific models

## Supported Products

Table 2 shows the supported products.

<b>Product Number</b>	<b>Description</b>
<a href="#">IE-SW-SPARE</a>	Spare IOS upgrade part number (L2 to L3 features)
<a href="#">MEM-SD-1GB-RGD</a>	1 GB industrial-grade secure digital (SD) memory card
<a href="#">STK-RACKMNT-2955=</a>	19 in. DIN rail mount kit
<a href="#">SIEUIK9T-15002EK=</a>	IP Services Software License for IE-2000U switches
<a href="#">GLC-TE</a>	1000BASE-T SFP transceiver module for Category 5 copper wire
<a href="#">GLC-T</a>	1000BASE-T SFP

GLC-ZX-SM	1000BASE-ZX SFP
SFP-GE-Z	1000BASE-ZX Gigabit Ethernet SFP (DOM)

## Compare to Similar Items

Table 3 shows the comparison.

Product Number	Total Ports	RJ45 Ports	Combo Ports	SFP Ports	Software	IEEE 1588	PRP	PoE(+)
<a href="#">IE-2000U-4TS-G</a>	6	4 FE		2 GE	LAN Base			
<a href="#">IE-2000U-4T-G</a>	6	2 GE + 4 FE			LAN Base			
<a href="#">IE-2000U-4S-G</a>	6			2 GE + 4 FE	LAN Base			
<a href="#">IE-2000U-8TC-G</a>	10	8 FE	2 GE		LAN Base	X	X	
<a href="#">IE-2000U-16TC-G</a>	20	16 FE	2 GE + 2 FE		LAN Base	X	X	
<a href="#">IE-2000U-16TC-G-X*</a>	20	16 FE	2 GE + 2 FE		LAN Base	X	X	
<a href="#">IE-2000U-16TC-GP</a>	18	16 FE	2 GE		LAN Base	X	X	X

\* Conformal coating

## Get More Information

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## Specification

<b>IE-2000U-16TC-GP Specification</b>	
<b>Total Ports</b>	18
<b>RJ45 Ports</b>	16 FE
<b>Combo Ports</b>	2 GE
<b>Software</b>	LAN Base
<b>IEEE 1588</b>	Yes
<b>PRP</b>	Yes
<b>PoE</b>	Yes
<b>Hardware</b>	<ul style="list-style-type: none"> <li>256 MB DRAM with ECC memory</li> <li>1 GB removable SD flash memory card (CG swap drive) – (128MB space available)</li> <li>Mini-USB connector</li> </ul>
<b>Alarm</b>	<ul style="list-style-type: none"> <li>Alarm I/O: two alarm inputs to detect dry contact open or closed, one alarm output relay. 48 VDC, 0.5A max</li> </ul>
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>Redundant DC input voltage with operating range: 12-48 VDC Nominal, 9.6-60 VDC Maximum</li> <li>Maximum DC input current: 0.5A at 48 VDC, 1A at 24 VDC</li> </ul>
<b>Substation Compliance</b>	<ul style="list-style-type: none"> <li>IEC 61850-3</li> <li>IEEE1613</li> </ul>

<b>Hazardous Location</b>	<ul style="list-style-type: none"> <li>• ANSI/ISA 12.12.01 (Class 1, Div 2 A-D) (requires cabinet enclosure)</li> <li>• UL/CSA 60079-0, -15 (Class 1, Zone 2, group II gases, requires cabinet enclosure)</li> <li>• EN 60079-0, -15 ATEX certification (Class I, Zone 2, Group II gases, requires cabinet enclosure)</li> <li>• IEC 60079-0, -15 (Class I Zone 2, Group II gases, requires cabinet enclosure)</li> <li>• CSA 213</li> </ul>
<b>Industrial Control Safety</b>	<ul style="list-style-type: none"> <li>• UL508</li> <li>• CSA C22.2 No. 142</li> </ul>
<b>EMC Interface Immunity</b>	<ul style="list-style-type: none"> <li>• EN 55024 (CISPR 24)</li> <li>• AS/NZS CISPR 24</li> <li>• KN 24</li> <li>• IEC61000-4-2 (Criteria A - Class 2)</li> <li>• IEC61000-4-3/ENV50204 (Criteria A)</li> <li>• IEC61000-4-4 (Criteria A/Criteria B)</li> <li>• IEC61000-4-5 (Criteria B)</li> <li>• IEC61000-4-6 (Criteria A)</li> </ul>
<b>Standard Electromagnetic Emissions Certifications</b>	<ul style="list-style-type: none"> <li>• FCC Part 15 Class A</li> <li>• EN 55022 Class A (CISPR22 Class A)</li> <li>• ICES-003 Class A</li> <li>• EN 300 386</li> <li>• VCCI Class A</li> <li>• AS/NZS CISPR22 Class A</li> <li>• CNS 13438 Class A</li> <li>• KN 22 Class A CE Marking</li> </ul>
<b>Standard Safety Certifications</b>	<ul style="list-style-type: none"> <li>• UL 60950-1</li> <li>• CSA 60950-1</li> <li>• EN 60950-1</li> <li>• IEC 60950-1, CB report and certificate with all national differences</li> </ul>
<b>Operating Environment</b>	<ul style="list-style-type: none"> <li>• Operating Temperature: -40C to +75C</li> <li>• -40C to +70C (Vented Enclosure – 40 LFM Air Flow)</li> <li>• -40C to +60C (Sealed Enclosure – 0 LFM Air Flow)</li> <li>• -34C to +75C (Fan or Blower equipped Enclosure – 200 LFM Air Flow)</li> <li>• -40 to +85C (IEC 60068-2-2 Environmental Type testing - 100 hours)</li> <li>• Operating altitude: -60 m (-200 ft) to 3,000 m (10,000 ft), de-rate maximum operating temperature per IEEE 1613-2009:</li> <li>• Relative humidity: 5% to 95% non-condensing</li> </ul>
<b>Storage Environment</b>	<ul style="list-style-type: none"> <li>• Temperature: -50° C to +85° C</li> <li>• Altitude: 15,100 ft (4600 m)</li> </ul>
<b>Warranty</b>	<ul style="list-style-type: none"> <li>• Five-year limited warranty on all IE-2000U HW PIDs</li> </ul>
<b>Protection Class Code</b>	<ul style="list-style-type: none"> <li>• IP30 per EN60529</li> </ul>

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