

IE-2000U-16TC-G-X Datasheet



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Overview

IE-2000U-16TC-G-X is a Cisco IE 2000U series switch, providing 16 x 10/100,2 FE SFP,2 T/SFP GE ports with 1588. 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.

Model	IE-2000U-16TC-G-X
Total Ports	20
RJ45 Ports	16 FE
Combo Ports	2 GE + 2 FE
Software	LAN Base
IEEE 1588	Yes
PRP	Yes
Dimensions (H x W x D), Including DIN Rail	5.1 x 5.0 x 5.26 in (130 x 127 x 134 mm)
Weight	4.35 lbs (1.97 kg)

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.

Product Number	Description
IE-SW-SPARE	Spare IOS upgrade part number (L2 to L3 features)
MEM-SD-1GB-RGD	1 GB industrial-grade secure digital (SD) memory card
STK-RACKMNT-2955=	19 in. DIN rail mount kit
SIEUISK9T-15002EK=	IP Services Software License for IE-2000U switches
GLC-TE	1000BASE-T SFP transceiver module for Category 5 copper wire

GLC-T	1000BASE-T SFP
GLC-ZX-SM	1000BASE-ZX SFP
SFP-GE-Z	1000BASE-ZX Gigabit Ethernet SFP (DOM)
GLC-FE-100FX-RGD	Cisco GLC-FE-100FX-RGD 100Base-FX Multi Mode Rugged SFP
GLC-FE-100EX	100BASE-EX SFP (40km)

Compare to Similar Items

Table 3 shows the comparison.

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

* Conformal coating

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Specification

IE-2000U-16TC-G-X Specification	
Total Ports	20
RJ45 Ports	16 FE
Combo Ports	2 GE + 2 FE
Software	LAN Base
IEEE 1588	Yes
PRP	Yes
Dimensions (H x W x D), Including DIN Rail	5.1 x 5.0 x 5.26 in (130 x 127 x 134 mm)
Weight	4.35 lbs (1.97 kg)
Hardware	<ul style="list-style-type: none"> • 256 MB DRAM with ECC memory • 1 GB removable SD flash memory card (CG swap drive) – (128MB space available) • Mini-USB connector
Alarm	•Alarm I/O: two alarm inputs to detect dry contact open or closed, one alarm output relay. 48 VDC, 0.5A max

Power Supply	<ul style="list-style-type: none"> • Redundant DC input voltage with operating range: 12-48 VDC Nominal, 9.6-60 VDC Maximum • Maximum DC input current: 0.5A at 48 VDC, 1A at 24 VDC
Power Consumption	20-port models: 13-20 W
Substation Compliance	<ul style="list-style-type: none"> • IEC 61850-3 • IEEE1613
Hazardous Location	<ul style="list-style-type: none"> • ANSI/ISA 12.12.01 (Class 1, Div 2 A-D) (requires cabinet enclosure) • UL/CSA 60079-0, -15 (Class 1, Zone 2, group II gases, requires cabinet enclosure) • EN 60079-0, -15 ATEX certification (Class I, Zone 2, Group II gases, requires cabinet enclosure) • IEC 60079-0, -15 (Class I Zone 2, Group II gases, requires cabinet enclosure) • CSA 213
Industrial Control Safety	<ul style="list-style-type: none"> • UL508 • CSA C22.2 No. 142
EMC Interface Immunity	<ul style="list-style-type: none"> • EN 55024 (CISPR 24) • AS/NZS CISPR 24 • KN 24 • IEC61000-4-2 (Criteria A - Class 2) • IEC61000-4-3/ENV50204 (Criteria A) • IEC61000-4-4 (Criteria A/Criteria B) • IEC61000-4-5 (Criteria B) • IEC61000-4-6 (Criteria A)
Standard Electromagnetic Emissions Certifications	<ul style="list-style-type: none"> • FCC Part 15 Class A • EN 55022 Class A (CISPR22 Class A) • ICES-003 Class A • EN 300 386 • VCCI Class A • AS/NZS CISPR22 Class A • CNS 13438 Class A • KN 22 Class A CE Marking
Standard Safety Certifications	<ul style="list-style-type: none"> • UL 60950-1 • CSA 60950-1 • EN 60950-1 • IEC 60950-1, CB report and certificate with all national differences
Operating Environment	<ul style="list-style-type: none"> • Operating Temperature: -40C to +75C • -40C to +70C (Vented Enclosure – 40 LFM Air Flow) • -40C to +60C (Sealed Enclosure – 0 LFM Air Flow) • -34C to +75C (Fan or Blower equipped Enclosure – 200 LFM Air Flow) • -40 to +85C (IEC 60068-2-2 Environmental Type testing - 100 hours) • Operating altitude: -60 m (-200 ft) to 3,000 m (10,000 ft), de-rate maximum operating temperature per IEEE 1613-2009: • Relative humidity: 5% to 95% non-condensing
Storage Environment	<ul style="list-style-type: none"> • Temperature: -50° C to +85° C • Altitude: 15,100 ft (4600 m)
Warranty	<ul style="list-style-type: none"> • Five-year limited warranty on all IE-2000U HW PIDs
Mean Time Between Failure (MTBF)	<ul style="list-style-type: none"> • 535,190 Hours
Protection Class Code	<ul style="list-style-type: none"> • IP30 per EN60529

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