

# IE-2000U-4T-G Datasheet

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## Overview

IE-2000U-4T-G is a Cisco IE 2000U series switch, providing 4 x 10/100, 2 x 10/100/1000 ports. 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>	IE-2000U-4T-G
<b>Total Ports</b>	6
<b>RJ45 Ports</b>	2 GE + 4 FE
<b>Software</b>	LAN Base
<b>Dimensions (H x W x D), Including DIN Rail</b>	5.1 x 2.95 x 4.51 in (130 x 74.9 x 115 mm)
<b>Weight</b>	2.45 lbs (1.11 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

## Compare to Similar Items

Table 3 shows the comparison.

Product Number	Total Ports	RJ45 Ports	Combo Ports	SFP Ports	Software	IEEE 1588	PRP	PoE(+)
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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

<b>IE-2000U-4T-G Specification</b>	
<b>Total Ports</b>	6
<b>RJ45 Ports</b>	2 GE + 4 FE
<b>Software</b>	LAN Base
<b>Dimensions (H x W x D)</b>	5.1 x 2.95 x 4.51 in (130 x 74.9 x 115 mm) (Including DIN Rail)
<b>Weight</b>	2.45 lbs (1.11 kg)
<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) <ul style="list-style-type: none"> <li>– (128MB space available)</li> </ul> </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>Power Consumption</b>	<ul style="list-style-type: none"> <li>● 6-port models: 9.5-15 W</li> </ul>

<b>Management</b>	<ul style="list-style-type: none"> <li>• BRIDGE-MIB (RFC1493)</li> <li>• BGP4-MIB (RFC1657)</li> <li>• CISCO-CABLE-DIAG-MIB</li> <li>• CISCO-BULK-FILE-MIB</li> <li>• CISCO-CDP-MIB</li> <li>• CISCO-CONFIG-COPY-MIB</li> <li>• CISCO-CONF-MAN-MIB</li> <li>• CISCO-DATA-COLLECTION-MIB</li> <li>• CISCO-ENVMON-MIB</li> <li>• CISCO-ERR-DISABLE-MIB</li> <li>• CISCO-ETHERNET-ACCESS-MIB</li> <li>• CISCO-FLASH-MIB</li> <li>• CISCO-FTP-CLIENT-MIB</li> <li>• CISCO-IETF-DOT3-OAM-MIB</li> <li>• CISCO-IGMP-FILTER-MIB</li> <li>• CISCO-IPLSA-ETHERNET-MIB</li> <li>• CISCO-PAGP-MIB</li> <li>• CISCO-PAE-MIB</li> <li>• CISCO-PING-MIB</li> <li>• CISCO-POE-EXTENSIONS-MIB</li> <li>• CISCO-PRIVATE-VLAN-MIB</li> <li>• CISCO-PROCESS-MIB</li> <li>• CISCO-PORT-QOS-MIB</li> <li>• CISCO-PORT-SECURITY-MIB</li> <li>• CISCO-PORT-STORM-CONTROL-MIB</li> <li>• CISCO-IMAGE-MIB</li> <li>• CISCO-LAG-MIB</li> <li>• CISCO-L2L3-INTERFACE-CONFIG-MIB</li> <li>• CISCO-MAC-NOTIFICATION-MIB</li> <li>• CISCO-MEMORY-POOL-MIB</li> <li>• CISCO-RTTMON-MIB</li> <li>• CISCO-STACK-MIB</li> <li>• CISCO-STP-EXTENSIONS-MIB</li> </ul>	<ul style="list-style-type: none"> <li>• CISCO-SYSLOG-MIB</li> <li>• CISCO-TCP-MIB</li> <li>• CISCO-UDLD-MIB</li> <li>• CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB</li> <li>• CISCO-VLAN-MEMBERSHIP-MIB</li> <li>• ENTITY-MIB (RFC2737)</li> <li>• ETHERLIKE-MIB</li> <li>• IEEE8021-PEA-MIB</li> <li>• IEEE8023-LAG-MIB</li> <li>• IF-MIB (RFC 1573)</li> <li>• IGMP-MIB</li> <li>• IPMROUTE-MIB</li> <li>• OLD-CISCO-CHASSIS-MIB</li> <li>• OLD-CISCO-FLASH-MIB</li> <li>• OLD-CISCO-INTERFACES-MIB</li> <li>• OLD-CISCO-IP-MIB</li> <li>• OLD-CISCO-SYS-MIB</li> <li>• OLD-CISCO-TCP-MIB</li> <li>• OLD-CISCO-TS-MIB</li> <li>• PIM-MIB</li> <li>• RFC1213-MIB (MIB-II)</li> <li>• RMON-MIB (RFC 1757)</li> <li>• RMON2-MIB (RFC 2021)</li> <li>• SNMP-FRAMEWORK-MIB (RFC2571)</li> <li>• SNMP-MPD-MIB (RFC 2572)</li> <li>• SNMP-NOTIFICATION-MIB (RFC 2573)</li> <li>• SNMP-TARGET-MIB (RFC 2573)</li> <li>• SNMPv2-MIB (RFC 1907)</li> <li>• SNMP-USM-MIB (SNMP-USER-BASED-SM-MIB) (RFC2574)</li> <li>• SNMP-VACM-MIB (SNMP-VIEW-BASED-ACM-MIB) (RFC2575)</li> <li>• TCP-MIB (RFC 2012)</li> <li>• UDP-MIB (RFC 2013)</li> </ul>
<b>Standards and Protocols</b>	<ul style="list-style-type: none"> <li>• IEEE 802.1s</li> <li>• IEEE 802.1w</li> <li>• IEEE 802.1x</li> <li>• IEEE 802.3ad</li> <li>• IEEE 802.3ah</li> <li>• IEEE 802.1ag</li> <li>• IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports</li> <li>• IEEE 802.1D Spanning Tree Protocol</li> <li>• IEEE 802.1p CoS classification</li> <li>• IEEE 802.1Q VLAN</li> <li>• IEEE 802.3 10BASE-T</li> <li>• IEEE 802.3u 100BASE-T</li> <li>• IEEE 802.3ab 1000BASE-T</li> <li>• IEEE 802.3z 1000BASE-X</li> <li>• IEEE 802.3af (IE-2000U-16TC-GPE only)</li> <li>• IEEE 802.3at (IE-2000U-16TC-GPE only)</li> <li>• IEEE 1588v2</li> <li>• IEC-62439-3 PRP</li> <li>• IPv6: MLD Snooping v1 and v2</li> <li>• Management: SNMP versions 1, 2, and 3</li> </ul>	

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