

IE-4000-8GS4G-E Datasheet



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Overview

IE-4000-8GS4G-E is an IE4000 series switch providing 8 x SFP 1G, 4 x 1G Combo, and LAN Base. The IE 4000 Series is ideal for industrial Ethernet applications where hardened products are required, including manufacturing, energy, transportation, smart cities. The IE4000 has built-in SW image verification to ensure authenticity of the Cisco Software. With improved overall performance, greater bandwidth, advanced security features, and enhanced hardware, the Cisco IE 4000 Series complements the current industrial Ethernet portfolio of related Cisco industrial switches, such as the Cisco IE 2000 and IE 3000.

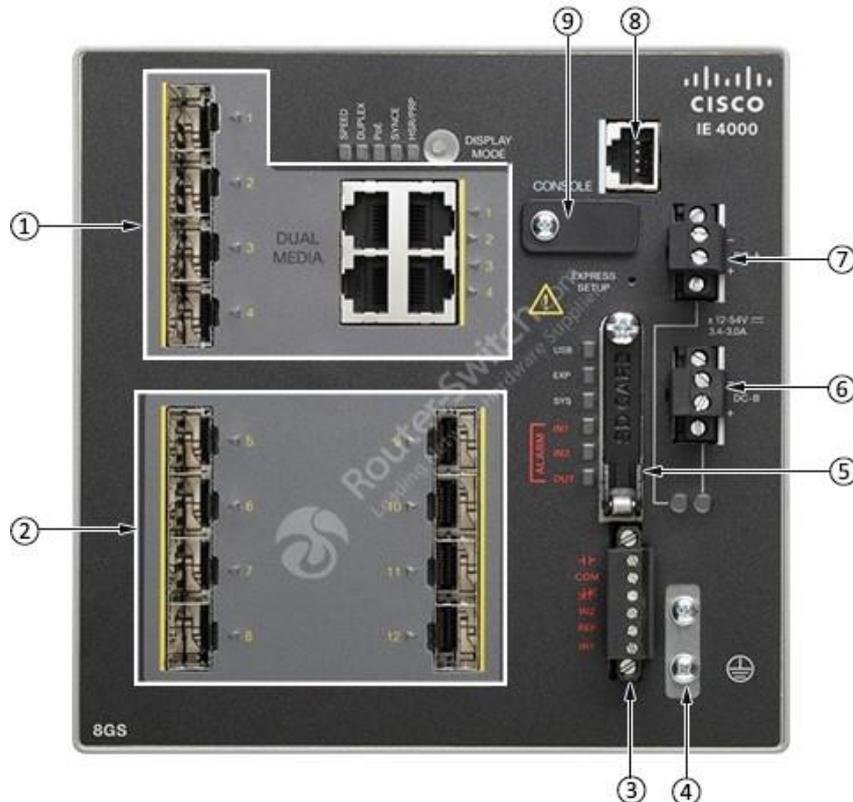
Quick Spec

Table 1 shows the quick spec.

| | |
|-------------------------------|---|
| Model | IE-4000-8GS4G-E |
| Total Ports | 12 |
| GE combo uplinks (4G) | 4 GE combo uplink ports |
| SFP fiber ports (S) | 8 GE |
| Default software | LAN Base feature set |
| Dimensions (H x W x D) | 6.12 x 6.12 x 5.09 in. (155.4 x 155.4 x 129.2 mm) |
| Weight | 6.35 pounds (2.88 kg) |

Product Details

Figure 1 shows the front view of IE4000 8GS switches.



Note:

| | |
|-----|--|
| (1) | 4 GE combo uplink ports |
| (2) | 8GE SFP fiber ports |
| (3) | Alarm connector |
| (4) | Protective ground connection |
| (5) | Flash memory card slot |
| (6) | Power connector DC-B |
| (7) | Power connector DC-A |
| (8) | RJ-45 console port |
| (9) | USB mini-Type B (console) port (Use a screwdriver to remove the port cover and access the port.) |

Figure 2 shows the back view of IE4000 switches.



Supported Products

Table 2 shows the supported modules, cards, licenses and accessories.

| Model | Description |
|--------------------------------|--|
| L-IE4000-RTU= | Electronic IP SERVICES License for IE4000 Switches |
| C1F1PIE4K5K1K9 | Cisco ONE Foundation Perpetual - IE 4000/5000 |
| C1A1PIE40001K9 | Cisco ONE Advanced Perpetual - IE 4000 |
| GLC-SX-MM-RGD | Cisco GLC-SX-MM-RGD 1000Mbps Multi-Mode Rugged SFP |
| GLC-BX40-U-I | 1000BASE-BX10 SFP module for single-strand SMF, 1310-nm TX/1550-nm RX wavelength, single LC/PC connector |
| GLC-TE | 1000BASE-T SFP transceiver module for Category 5 copper wire |

| | |
|----------------|---|
| GLC-ZX-SM | 1000BASE-ZX SFP |
| GLC-BX-U | 1000BASE-BX SFP, 1310NM |
| SFP-GE-L | 1000BASE-LX/LH SFP (DOM) |
| GLC-ZX-SMD | Cisco GLC-ZX-SMD 1000BASE-ZX SFP transceiver module, SMF, 1550nm, DOM |
| GLC-SX-MMD | Cisco GLC-SX-MMD 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM |
| GLC-FE-100EX | 100BASE-EX SFP (40km) |
| GLC-FE-100BX-U | 100BASE-BX10-U SFP |

Compare to Similar Items

Table 3 shows the comparison.

| Model | IE-4000-8GS4G-E | IE-4000-16T4G-E |
|------------------------|-------------------------|-------------------------|
| Total Ports | 20 | 20 |
| GE combo uplinks (4G) | 4 GE combo uplink ports | 4 GE combo uplink ports |
| RJ-45 copper ports (T) | N/A | 16 FE |
| SFP fiber ports (S) | 8 GE | N/A |
| Default software | LAN Base feature set | LAN Base feature set |

Ordering Guide

 [\[PDF\] Cisco Industrial Ethernet Switches Ordering Guide](#)

 [\[PDF\] Simple Cisco Industrial Ethernet Switches \(IE 4000, IE 2000 included\) Selection Guides](#)

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Specification

| IE-4000-8GS4G-E Specification | |
|--------------------------------------|---|
| Physical Specification | |
| Total Ports | 12 |
| GE combo uplinks (4G) | 4 GE combo uplink ports (Combo ports provide one copper and one fiber physical port and only one can be activated at a time.) |
| SFP fiber ports (S) | 8 GE |
| Default software | LAN Base feature set (Can be upgraded to IP Services at a fee.) |
| Hardware | <ul style="list-style-type: none"> • 1GB DRAM • 128-MB onboard flash memory • 1-GB removable SD flash memory card • Mini-USB connector • RJ-45 connector |
| Alarm | Alarm I/O: two alarm inputs to detect dry contact open or closed, one alarm output relay |

| | |
|---|---|
| Power Input | <ul style="list-style-type: none"> • Redundant DC input voltage with operating range: nominal 9.6 to 60VDC • Maximum DC input current: 5A |
| Power consumption | 42W |
| Dimensions (H x W x D) | 6.12 x 6.12 x 5.09 in. (155.4 x 155.4 x 129.2 mm) |
| Weight | 6.35 pounds (2.88 kg) |
| Switch performance and scalability | |
| Forwarding rate | Line rate for all ports and all packet sizes |
| Number of queues | 4 egress |
| Unicast MAC addresses | 16,000 |
| IGMP multicast groups | 1,000 |
| Number of VLANs | 1,000 |
| IPv4 MAC security ACEs | 1,000 with default TCAM Template |
| NAT translation | Bidirectional, 128 unique subnet NAT translation entries, which can expand to tens of thousands of translated entries if designed properly |

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