COMMANDO Scout E1000 Series Unmanaged Switches

Data Sheet

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Product Overview

COMMANDO Scout E1000 Series Unmanaged Switches consists of switches which are ideal for small to medium-sized businesses, Internet cafes, hotels, schools, and suitable for surveillance. They are easy to install and maintain and provide rich services, helping customers build secure, reliable, and high-performance networks. It is an economical way for SOHO and Small-to-Medium Businesses (SMB) to take advantage of Gigabit Ethernet speeds with copper/fiber ports as well as PoE/PoE+ with power budget up to 450W capability while reducing energy consumption and minimizing noise. This Series switches are available in 8 to 24 Gigabit Ethernet ports or 8 to 24 Fast Ethernet Ports with 2/4 fixed 1GE copper/ 1G Fiber Uplinks having enclosure type desktop, rack/wall mountable-1U depending on switch model. Designed for operational simplicity to lower total cost of ownership, they enable scalable access layer office and home operations.

It can be quickly set up with plug and play with Zero Touch Provisioning. It is unmanaged SOHO (Small Office/Home Office) Switches, are designed for Small Business Networks, unmanaged Switches empower your growing business instant flexibility with copper as well as fiber ports connectivity along with PoE/PoE+ reliable performance at a very affordable cost. This switch provides Gigabit Ethernet high-speed network connectivity with duplex and speed auto-negotiation for optimal speed detection through RJ45 Category 5, 5e or 6 cables and supports up to 250m cable distance on copper ports and Up to 120Km on fiber ports.

It can identify and determine the correct transmission speed and half/full duplex mode of the attached devices. It also supports standard Auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight or crossover cables, Store-and-Forward forwarding scheme to ensure low latency and high data integrity.

It supports Energy Efficient Ethernet (EEE), which enables the switch to enter a power-saving mode when traffic is light. Switches can smartly automatically adjust the PoE/PoE+ power output for transmissions based on the cable length for PoE/PoE+ devices connected. It can also set any ports that are not transmitting traffic to sleep mode.

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Product Highlights

- 8 to 24 x 10/100Mbps or 10/100/1000Mbps Ethernet Ports along with fixed 1G fiber/1GE copper Uplinks and PoE/PoE+ and non PoE Models.
- Extra 2/4 Ports slots with separate, fixed 1G Fiber/ 1GE Copper Switchports or Uplinks.
- Power over Ethernet (PoE) / Power over Ethernet plus (PoE+) models to provide power on all ports to IEEE 802.3af and IEEE 802.3at (15.4W, 30W) capable devices including Wireless AP, Bridges, IoT etc. according to the power budget Up to 450 W along with backward compatibility.
- All ports have PoE/PoE+ capability and 30W Max Per port.
- PD detection will automatically detect and provide required power for your PoE/PoE+ devices.
- Automatically adjust the PoE/PoE+ power for connected PoE devices based on the cable length and supports up to 250m of copper cable length.
- Backplane Bandwidth: 7.2Gbps-160Gbps
- MAC address Table: 8K entries with 4-way hashing algorithm
- MAC Address Auto-Learning and Auto-Aging
- Easy Installation, Plug-and-play installation with no configuration required
- Support Store-and-forward Switching
- Enclosure Type Desktop, Rack/Wall mountable - 1U.
- Surge protection ±4 kV
- All ports support jumbo frame of size 10000 bytes transmission.
- All 8 to 24 ports support auto-negotiation and auto MDI/MDIX.
- All ports capable of Gigabit Ethernet connections and provide full speed of data transferring with (Auto-Negotiation/Auto MDI/MDIX) model based.

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- Plug and Play design simplifies installation with self-adaption.
- Desktop as well standard rack mountable option along with fan or fan-less option, silent design with Small form-factor. Perfect for noise sensitive environments.
- Energy-Saving by Energy Efficient Ethernet (EEE), which enables the switch to enter a power-saving mode when traffic is light.
- Automatically adjust the PoE/PoE+ power for connected PoE devices based on the cable length and supports up to 250m of Ethernet cable length reach ability.
- With Zero Touch Provisioning: Plug and play and no setup.
- Affordable, Easy-to-Use Switches for Small Business Networks, with Zero Configuration Required
- Comes with one-year default warranty – optionally extendable up to 3 years.

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Features and Benefits

Compact Design with Flexibility of additional ports

The switches provide additional deployment flexibility, fiber connectivity for easy expansion of your networks up to 120Km with fiber connectivity. So, you can directly connect to a high-performance storage server or deploy a long-distance uplink to another switch.

Longer Distance Coverage

State of art quality switches that can serve real time high-speed performance which covers longer physical distance up to 250 meters with copper pairs compared to other brands.

High-Speed Networking

With 1Gbps speed on each port, It gives flexibility & high bandwidth connectivity to servers, workstations and other network devices. It enables users to save time when transferring large files by sending Jumbo frames up to 10000 bytes.

Easy to Use

COMMANDO Scout E1000 Series Switches are easy to use and manage. All switches are Plug-and-Play devices that requires zero configuration, so setup is simple and hassle-free. Auto MDI/MDI-X crossover on all ports eliminate the need for crossover cables or uplink ports. Auto-Negotiation on each port senses the link speed of a network device (either 10, 100 or 1000Mbps) and smartly adjusts for compatibility and optimal performance. Its compact size makes it ideal for desktops as well as rackmount with limited space. Dynamic LED lights provide real-time work status display and basic fault diagnosis.

PoE/PoE+ Capabilities

Scout E1000 Series Unmanaged Switches are high power switches and support up to 450W (PoE/PoE+) Power Budget. This Series switches smartly adjust IEEE802.3af / IEEE802.3at PoE/PoE+ (up to 30 Watts per port). All ports in PoE/PoE+ capable switch allows Power-over-Ethernet (PoE/PoE+) to connect and power PoE/PoE+ capable

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cameras, Wireless access points, VoIP phones, IoT and all PoE/PoE+ capable devices using just Ethernet cabling.

Auto MDIX Capabilities

Auto sensing/Auto PoE/PoE+ 10/100 or 10/100/1000 ports with auto MDIX capabilities which also removes speed and duplex mismatches automatically as well as covers larger physical distance with copper pairs compared to other brands best switches.

Compact and Silent Performance

It comes with one fan or fan-less models with Small form-factor, compact PoE/PoE+ switch operates quietly, making it ideal for use in virtually any room or office. Perfect for noise sensitive environments. Fan based Switches have Temperature and load based fan speed control combines accurate monitoring with minimized system acoustic noise. The Fan based switches also feature built-in smart fans that monitor and detect temperature changes, adjusting the fan speed for maximum efficiency. At lower temperatures, the fans run at a lower speed, reducing both the power consumption and noise output of the switch.

Support uninterrupted critical network infrastructure

It has AC input power which protect from power surges through their inline power supply automatically and have in build Surge protection of ±4KV. With this feature protect on cost and the impact to your business by losing these network devices and thus the users/servers connected to them.

Cost Efficient

State of art quality product that can serve on real time high-speed Performance with AC input power which covers larger physical distance with copper pairs compared to other brands best switches and are highly reliable, conformance to international open standards, durable, serviceable, aesthetics, perceived quality, enhanced performance with larger range with copper cables up to 250m and usability leads to value to money.

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Green Technology

It features the energy-efficient Ethernet that can save power. It automatically adjusts power consumption according to the link status to limit the carbon footprint of your network. It also complies with RoHS, prohibiting the use of certain hazardous materials. Besides that most of the packaging material can be recycled and reused.

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Hardware

COMMANDO Scout E1000 Series Unmanaged Switches supports IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE 802.3z Gigabit Ethernet, IEEE 802.3x Flow Control, IEEE 802.3af/at. Supported Auto-MDIX function automatically identify straight forward cable and cross-over cable. Support port auto-negotiation function (Automatically negotiate transmission rate and Duplex modes). Support the Energy Efficient Ethernet (IEEE 802.3az) standard, which reduces energy consumption by monitoring the amount of traffic on an active link and putting the link into a sleep state during quiet periods.

Solid performance with non-blocking architecture

- CPU Dual Core having frequency 500 MHz along with packet Buffer memory of up to 4.1MB.
- All ports capable of Gigabit Ethernet speed. Full speed of data transferring with (Auto-Negotiation/Auto MDI/MDIX).
- Solid performance with non-blocking architecture, 8K entries MAC Address Table with 4-way hashing algorithm.
- Supports Jumbo frames having maximum packet length up to 10000 bytes.
- 2-hash algorithm selection for L2 table searching/learning with Aging timer range from 0.2s to 1600000s.
- Switching Capacity: Up to 160Gbps
- Forwarding Capacity: Up to 77.38Mpps
- Store-and-forward Switching Scheme.

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Physical Ports and Networking Interfaces

- Up to 24 x 10/100 Mbps or 10/100/1000 Mbps Rj45 Ethernet Ports with combo 4CF as well separate ports 2 GE (RJ-45). Extra separate 2/4 Ports with flexible 1G Fiber/ 1GE Copper Switchports /Uplinks.
- LED Indicators: Power, Link/Act, PoE Max.

IEEE 802.3af/at Compliant Power over Ethernet

- Various power budget options like 24W, 150W, 260W and 450W with 30W Max Per port (PoE/PoE+). PoE power supply transmission is more reliable due to design of robust network transformer which uses high current. All PoE/PoE+ ports are IEEE 802.3af-compliant PoE, IEEE802.3at-compliant PoE+. Each port delivers 15.4 W PoE, 30 W PoE+ power. PD detection will automatically detect and provide required power for your PoE/PoE+ devices.

Extra Long operational life

- High Quality PCB Circuit Board and PCB Surface Treatment Using Gold Sinking Process.
- Support temperature range 0° C to 55° C
- Surge protection up to ±4KV to designed to automatically protect Switches from surge events by limiting transient voltages and diverting surge currents.
- Long life electrolytic capacitance to increase the operational life of switches. RJ45 Gold plated with 3U thickness.
- Rack and Wall mount design that enables to mounts in an EIA Standard 19-inch telco rack or equipment cabinet along with Rack-mounting kit available with device. Which enables horizontal surface mounting, wall mounting and also having durable robust metal body.

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Green Energy and Noise-free Operation

- Comply with IEEE 802.3az (Energy-Efficient Ethernet) standard, reduces power consumption up to 58% and reduce the noise pollution. Energy Efficient Ethernet (EEE) on the RJ-45 ports and low-power operations for industry best-in-class power management and power consumption capabilities. The ports support reduced power modes so that ports not in use can move into a lower power utilization state.
- Automatic Temperature Controlled Fans using Temperature Sensor. Small form-factor, fan-less as well fan design for silent operation. Perfect for noise sensitive environments.
- Temperature Control Fan to optimize cooling and noise with bilateral heat dissipation.

Ethernet Protocols

Supports wide range of IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE 802.3z Gigabit Ethernet, IEEE 802.3x Flow Control, 802.1p priority, Energy Efficient Ethernet, IEEE802.3af, Power over Ethernet, IEEE802.3at, Power over Ethernet plus.

Enterprise High reliability design and high quality product

- Very high Quality as for all Mean Time Before Failure of system, MTBF >2,00,000 hours
- Stability: 64-bit packet, time delay < 10us, packet loss rate: 0
- Restorability of Network shaking or device breakdown, restart(recovery) time < 60sec.
- RoHS Compliant with most of the packaging material can be recycled and reused.

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Specifications

COMMANDO Scout E1000 Series Smart Switches supports IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE 802.3z Gigabit Ethernet, IEEE 802.3x Flow Control, IEEE 802.3af/at. Supported Auto-MDIX function automatically identifies straight forward cable and cross-over cable. Support port auto-negotiation function (Automatically negotiate transmission rate and Duplex modes). Support the Energy Efficient Ethernet (IEEE 802.3az) standard, which reduces energy consumption by monitoring the amount of traffic on an active link and putting the link into a sleep state during quiet periods.

It supports 8K entries in the 4-way hash L2 table for MAC address learning and searching also has two hash algorithms for IVL (Independent VLAN Learning), SVL (Shared VLAN Learning), and IVL/SVL (both Independent and Shared VLAN Learning) for flexible network topology architecture. It also has per-port L2 storm filtering control mechanism which suppresses the flow rate of some specific packets for Unknown Unicast Storm, Unknown Multicast Storm, and Broadcast Storm. IEEE 802.3az Energy Efficient Ethernet (EEE) for 100Base-TX in full duplex operation and supports 10Base-T for 10Base-T in full/half duplex. The Energy Efficient Ethernet (EEE) operational mode combines the IEEE 802.3 Media Access Control (MAC) Sub-layer with a family of Physical Layers defined to support operation in Low Power Idle (LPI) Mode. When Low Power Idle Mode is enabled, systems on both sides of the link can disable portions of the functionality and save power during periods of low link utilization. EEE operational mode supports IEEE 802.3 MAC operation at 1000Mbps. For 100Mbps operation, the 100Base-TX PHY is supported interoperable with legacy 10Base-T PHYs over 100m of Class-D (Category 5) or better cabling. It supports IEEE 802.3x full duplex flow control. If one port's received frame buffer is over the pause threshold, a pause-on frame is sent to indicate to the link partner to stop the transmission. When the ports received frame buffer drops below the pause threshold, it sends a pause-off frame. Auto MDI/MDI-X adjusts automatically for straight-through or crossover cables on all 10/100 or 10/100/1000 ports. Loop protection, If the switch detects a loop, it disables the

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source port from forwarding data packets originating from the switch to avoid broadcast storms. SFP fiber uplinks provides greater distance connectivity using Gigabit fiber uplinks. The switch provides an estimated cumulative energy savings due to green Ethernet features being auto enabled along with power budget up to 450W.

Table 1. Technical Specifications

E1000 Switch Parameter	Specification
Packet Buffer Memory	Up to 4.1 MB
Switching Method	Store and Forward
Switching Capacity	7.2Gbps to 160Gbps
MAC Address Table Size	8K entries
Maximum packet length	10000byte
Operation Temperature	0° to 55°C
Storage Temperature	-20° to 70°C
Operation Humidity (relative, noncondensing)	10% to 90%
Storage humidity (relative, noncondensing)	5% to 90%
Input Power Supply	AC: 100~240V 50/60Hz AC: 180 to 240V AC 50/60Hz
LED Indicator	Link/Act，PoE, Power
Energy Saving	Comply with “EEE” Energy Efficient Ethernet (IEEE 802.3az)
Surge protection (kV)	±4 kV
Rack-mountable	Desktop, Rack/Wall mountable depending on model
Fan (Number)	Fan-less, up to 1 Fan depending on model

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COMMANDO Scout E1000 Series Unmanaged Switches hardware supports L2 VLAN function with IVL, SVL, and IVL/SVL with 2-hash algorithm selection for L2 table searching/learning along with Aging timer range from 0.2s to 1600000s. IEEE 802.1Q VLAN with 4K-entry VLAN Table with limited learned L2 MAC entry on each port and each VLAN. Independent 512-entry L2/IP Multicast table for multicast function. Supports Reserved Multicast Addresses processing.

Table 2. Hardware Specifications

Product Code	Ports	Main Interface	Uplink Interfaces
E1000-16P-4CF	16 x 10/100Mbps Ethernet PoE+ ports 2 x 10/100/1000Mbps Ethernet / 2 x 1G SFP Combo Uplink ports	16 FE	2GE or 2SFP
E1000-24P-4CF	24 x 10/100Mbps Ethernet PoE+ ports 2 x 10/100/1000Mbps Ethernet / 2 x 1G SFP Combo Uplink ports	24 FE	2GE or 2SFP
E1000-8GP-4CF	8 x 10/100/1000Mbps Ethernet PoE+ ports 2 x 10/100/1000Mbps Ethernet + 2 x 1G SFP Uplink ports	8 GE	2GE and 2SFP
E1000-16GP-4CF	16 x 10/100/1000Mbps Ethernet PoE+ ports 2 x 10/100/1000Mbps Ethernet + 2 x 1G SFP Uplink ports	16 GE	2GE and 2SFP
E1000-24GP-4CF	24 x 10/100/1000Mbps Ethernet PoE+ ports 2 x 10/100/1000Mbps Ethernet + 2 x 1G SFP Uplink ports	24 GE	2GE and 2SFP

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E1000-8X	8 x 1/10G SFP+ ports	8 SFP	-
E1000-8SFP-2G	8x 1G SFP ports 2 x 10/100/1000Mbps Ethernet Uplink ports	8 SFP	2GE

Table 3. Enclosure, Fan, Power Specifications

Product Code	Enclosure Type	Fan (Number)	Power Supply
E1000-16P-4CF	Desktop, Rack/Wall mountable	1	AC: 180~240V 50/60Hz
E1000-24P-4CF	Rack/Wall mountable	1	AC: 180~240V 50/60Hz
E1000-8GP-4CF	Desktop, Rack/Wall mountable	Fan-less	AC: 180~240V 50/60Hz
E1000-16GP-4CF	Desktop, Rack/Wall mountable	1	AC: 180~240V 50/60Hz
E1000-24GP-4CF	Rack/Wall mountable	1	AC: 180~240V 50/60Hz
E1000-8X	Desktop, Rack/Wall mountable	Fan-less	AC: 100~240V 50/60Hz
E1000-8SFP-2G	Desktop, Rack/Wall mountable	Fan-less	AC: 100~240V 50/60Hz

IEEE 802.3X Flow Control Provides a flow throttling mechanism propagated through the network to prevent packet loss at a congested node. IEEE 802.3 af/at Power over Ethernet (PoE/PoE+) Provides up to 30 W per port having power budget up to 450W, which allows support of the latest PoE/PoE+ capable devices such as Video IP phones, wireless access points, and advanced pan/tilt/zoom security cameras, as well as any 15.4 W IEEE 802.3 af compliant end device up to 250m cable length. This ensures that

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cost of additional electrical cabling and circuits reduced to zero. PoE/ PoE+ availability on all ports. Auto-PoE power configuration means switch automatically assigns the required power to a port for a PD device.

Table 4. Power Specifications

PRODUCT CODE	Power Budget	Max no. of PoE+ (IEEE 802.3at) Ports	Max no. of PoE (IEEE 802.3af) Ports
E1000-16P-4CF	260W	8 ports up to 30W	All ports up to 15.4W
E1000-24P-4CF	450W	16 ports up to 30W	All ports up to 15.4W
E1000-8GP-4CF	150W	4 ports up to 30W	All ports up to 15.4W
E1000-16GP-4CF	260W	8 ports up to 30W	All ports up to 15.4W
E1000-24GP-4CF	450W	12 ports up to 30W	All ports up to 15.4W
E1000-8X	24W	-	-
E1000-8SFP-2G	24W	-	-

The switching capacity indicates the total data exchange capability of the switch, in Gbps. MTBF is a basic measure of a system's reliability. This Series Switch is having higher MTBF, means very reliable product.

Table 5. Bandwidth Specifications

Model Number	Switching Capacity（Gbps）	Forwarding rate（Mpps）	MTBF (hours)
E1000-16P-4CF	7.2	5.36	405023
E1000-24P-4CF	8.8	6.55	415632

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E1000-8GP-4CF	24	17.85	245461
E1000-16GP-4CF	40	29.76	384902
E1000-24GP-4CF	56	41.66	298416
E1000-8X	120	89.28	300,000
E1000-8SFP-2G	20	14.88	280,000

Table 6. LED Indication

LED Indication	LED Status
Power	**Green OFF:** No power on the switch. **Green ON:** The switch powered on
Link/Act	**LINK/ACT bi-color LED:** **OFF:** Port disconnected or link fail. **Green ON:** 1000Mbps connected. **Amber ON:** 10/100Mbps connected. **Green Flashing:** 1000Mbps connected and Data in transit **Amber Flashing:** 10/100Mbps connected and Data in transit
PoE	**OFF:** PoE/PoE+ power is not provided on port **Blue ON:** PoE/PoE+ power is provided on port

Table 7. Maximum Cable Lengths

Connection Cable Type	Category and Speed	Maximum Cable Distance Supported
Unshielded Twisted Pair cable	**10/100Base-TX:** UTP category 5/5e/6 cables (Maximum 100m) **1000Base-T:** UTP Category 5/5e/6 cable (Maximum 100m)	100M
Shielded Twisted	**10/100Base-TX:** STP category 5/5e/6	250M/100M

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Pair cable	cables (Maximum 250m) 1000Base-T: UTP Category 5/5e/6 cable (Maximum 100m)	
Optical Fiber Cable	550M~20KM Depending on SFP	120KM

Environmental properties specifications

Environmental properties include those physical properties which relate to the environment. Moisture, heat conductivity, the physical effect of heat, Altitude, Humidity and electrical properties depend on the environmental conditions surrounding the device.

Table 8. Environmental properties

Property	Description
Operation Temperature	0°C to 55°C
Operating temperature and altitudes:	0°C to +55°C, up to 5000 feet (1500m) 0°C to +55°C, up to 10,000 feet (3000m) Minimum ambient temperature for cold start is 32°F (0°C) Short-term* exceptional conditions: 0°C to +55°C, up to 5000 feet (1500m) 0°C to +50°C, up to 10,000 feet (3000m) 0°C to +55°C, at sea level with single fan failure Not more than following in one-year period: 96 consecutive hours, or 360 hours total, or 15 days
Storage Temperature	-20° to 70°C
Operating Humidity (relative, noncondensing)	10% to 90% (Non-condensing)

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Storage Humidity	5% to 90%(Non-condensing)

Weight and Dimension specifications

It offers best in class from package dimensions to weight, destination, value, and shipment type. They are suitable for Industry standard Rack/Wall mounting. Industry Standard Rack/Wall mounted describes a unit of electronic equipment that is housed in a metal framework called an equipment rack. Usually, an equipment rack contains multiple "bays," each designed to hold a unit of equipment of standard dimensions.

Table 9. Weight and Dimension

Product Code	Weight and Dimension		
	Kg	Centimeters (H x W x D)	Inches (H x W x D)
E1000-16P-4CF	3.32	4.4 x 44.3 x 23.0	1.7 x 17.4 x 9.1
E1000-24P-4CF	3.54	4.4 x 44.3 x 23.0	1.7 x 17.4 x 9.1
E1000-8GP-4CF	2.80	4.4 x 29.0 x 20.0	1.7 x 11.4 x 7.9
E1000-16GP-4CF	3.58	4.4 x 44.3 x 23.0	1.7 x 17.4 x 9.1
E1000-24GP-4CF	3.74	4.4 x 44.3 x 23.0	1.7 x 17.4 x 9.1
E1000-8X	2.80	4.4 x 29.0 x 20.0	1.7 x 11.4 x 7.9
E1000-8SFP-2G	2.80	4.4 x 29.0 x 20.0	1.7 x 11.4 x 7.9

SFP ports Slots specifications

It has 1G/1GE/10G Gigabit Ethernet fiber-based or Gigabit Ethernet copper based Small Form-Factor Pluggable with granular port densities that fit diverse campus

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needs. The SFP transceiver is a compact, hot-swappable device that plugs into a physical port of a network device. SFP optics are used in communication networks and have a transmitting side (Tx) and a receiving side (Rx). The different SFP transceivers work with different wavelengths at an appointed distance. 1G fiber solution or 1GE copper fixed uplinks.

Table 10. SFP specifications

PRODUCT CODE	Description	Speed	Distance
SFP-UTP-1G	COMMANDO CopperX 1000BASE-T RJ45, SFP, 100m, CAT5/6, Multi-brand	1.25G	100m
SFP-MM-1G	COMMANDO FiberX 1000BASE-SX, SFP, 850nm, 550m, MMF, DDM, Multi-brand	1.25G	550m
SFP-SM-1G	COMMANDO FiberX 1000BASE-LX/LH, SFP, 1310nm, 20km, SMF, DDM, Multi-brand	1.25G	20km
SFP-EX-1G	COMMANDO FiberX 1000BASE-EX, SFP, 1310nm, 40km, SMF, DDM, Multi-brand	1.25G	40km
SFP-ZX-1G	COMMANDO FiberX 1000BASE-ZX, SFP, 1550nm, 80km, SMF, DDM, Multi-brand	1.25G	80km
SFP-EZX-1G	COMMANDO FiberX 1000BASE-EZX, SFP, 1550nm, 120km, SMF, DDM, Multi-brand	1.25G	120km
SFP-UTP-10G	COMMANDO CopperX 10GBASE-T RJ45, SFP+, 30m, CAT 6a/7, Multi-brand	10G	30m
SFP-UTP-10G-80M	COMMANDO CopperX 10GBASE-T RJ45, SFP+, 80m, CAT 6a/7, Multi-brand	10G	80m

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SFP-SR-10G	COMMANDO FiberX 10GBASE-SR, SFP+, 850nm, 300m, MMF, DDM, Multi-brand	10G	300m
SFP-LR-10G	COMMANDO FiberX 10GBASE-LR, SFP+, 1310nm, 10km, SMF, DDM, Multi-brand	10G	10km
SFP-LR-10G-20K	COMMANDO FiberX 10GBASE-LR, SFP+, 1310nm, 20km, SMF, DDM, Multi-brand	10G	20km
SFP-ER-10G	COMMANDO FiberX 10GBASE-ER, SFP+, 1550nm, 40km, SMF, DDM, Multi-brand	10G	40km
SFP-ZR-10G	COMMANDO FiberX 10GBASE-ZR/ZW, SFP+, 1550nm, 80km, SMF, DDM, Multi-brand	10G	80km

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Power Supply Specifications

Power supply is a king of all electronic devices without the power supply switch cannot work. Following rating power input required to make switch work.

Table 11. Power supply specifications

Description	Rating
Power supply rated maximum	240V AC
Input-voltage range and frequency	AC: 180V to 240V AC, 50 to 60 Hz AC: 100~240V 50/60Hz
Power cord rating	15A

Included in the bundle/box

All Soldier E1000 Series Switches are made available for use globally along with accessories in the bundle to facilitate for enhance operations.

The switch box comes included with the following accessories:

1x COMMANDO Scout E1000 Series Unmanaged Switch

1x Power cable

1x Console cable

1x Rack/Wall mountable kit

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Warranty and Support

COMMANDO Scout E1000 Series Switches come with replacement warranty and provided support according to COMMANDO WarrantyX Program available on:

https://www.commandonetworks.com/warranty

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Ordering Information

Table 12 lists ordering information for the COMMANDO Scout E1000 Series Unmanaged Switches. To place an order, please contact your local reseller/distributor or COMMANDO Sales Representative at www.commandonetworks.com/catalog

Table 12. Ordering Information

Product Code	Description
E1000-16P-4CF	COMMANDO Scout E1000 16x100M Full PoE/PoE+, 2x1GbE/2x1G SFP Combo Uplinks, 260W, Unmanaged Switch
E1000-24P-4CF	COMMANDO Scout E1000 24x100M Full PoE/PoE+, 2x1GbE/2x1G SFP Combo Uplinks, 450W, Unmanaged Switch
E1000-8GP-4CF	COMMANDO Scout E1000 8x1GbE Full PoE/PoE+, 2x1GbE+2x1G SFP Uplinks, 150W, Unmanaged Switch
E1000-16GP-4CF	COMMANDO Scout E1000 16x1GbE Full PoE/PoE+, 2x1GbE+2x1G SFP Uplinks, 260W, Unmanaged Switch
E1000-24GP-4CF	COMMANDO Scout E1000 24x1GbE Full PoE/PoE+, 2x1GbE+2x1G SFP Uplinks, 450W, Unmanaged Switch
E1000-8X	COMMANDO Scout E1000 8x10G SFP+, Unmanaged Fiber Switch
E1000-8SFP-2G	COMMANDO Scout E1000 8x1G SFP, 2x1GbE Uplinks, Unmanaged Fiber Switch

Please note:

The model numbers of newer version products are further simplified such as + is updated to –. However, the product remains same and can be treated interchangeably.

Examples:

E1000-24GP+4CF is updated to E1000-24GP-4CF

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Can’t Find the Right Switch? Explore Our Full Range of Unmanaged Switches

COMMANDO Scout E100 Series Unmanaged Switches

COMMANDO Scout E100 Series Unmanaged Switches are plastic casing switches. These are non-PoE Series Switches specially designed with focus on SoHo and price priority application scenarios. All RJ45 ethernet ports have 5/8-Pins ensuring efficient data transfers. The plastic casing is high quality and durable with high level of heat absorption and resistance.

Product Code	Description
E100-5	COMMANDO Scout E100 5x100M, Unmanaged Switch
E100-8	COMMANDO Scout E100 8x100M, Unmanaged Switch
E100-5G	COMMANDO Scout E100 5x1GbE, Unmanaged Switch
E100-8G	COMMANDO Scout E100 8x1GbE, Unmanaged Switch

COMMANDO Scout E200 Series Unmanaged Switches

COMMANDO Scout E200 Series Unmanaged Switches deliver smart, plug-and-play performance with PoE/PoE+ (IEEE 802.3af/at) and up to 30W per port. Extend power and data up to 250 meters with AI 250M mode — ideal for remote cameras and outdoor APs. Features include AI PoE auto-heal for zero-touch device recovery, AI VLAN for automatic port isolation, and AI Broadcast Storm Suppression to keep networks stable. No configuration needed — just connect and go.

Product Code	Description
E200-4P-2F	COMMANDO Scout E200 4x100M PoE/PoE+, 2x100M Uplinks, 65W, Unmanaged AI Switch
E200-8P-2F	COMMANDO Scout E200 8x100M PoE/PoE+, 2x100M Uplinks, 96W, Unmanaged AI Switch
E200-8P-2G	COMMANDO Scout E200 8x100M PoE/PoE+, 2x1GbE Uplinks, 96W, Unmanaged AI Switch
E200-16P-3CF	COMMANDO Scout E200 16x100M PoE/PoE+, 2x1GbE+1G SFP Uplinks, 200W, Unmanaged AI Switch
E200-24P-2SFP	COMMANDO Scout E200 24x100M PoE/PoE+, 2x1G SFP Uplinks, 300W, Unmanaged AI Switch

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E200-4GP-2SFP	COMMANDO Scout E200 4x1GbE PoE/PoE+, 2x1G SFP Uplinks, 65W, Unmanaged AI Switch
E200-4GP-2G	COMMANDO Scout E200 4x1GbE PoE/PoE+, 2x1G SFP Uplinks, 65W, Unmanaged AI Switch
E200-8GP-2SFP	COMMANDO Scout E200 8x1GbE PoE/PoE+, 2x1G SFP Uplinks, 96W, Unmanaged AI Switch
E200-8GP-2G	COMMANDO Scout E200 8x1GbE PoE/PoE+, 2x1GbE Uplinks, 96W, Unmanaged AI Switch
E200-8GP-4CF	COMMANDO Scout E200 8x1GbE PoE/PoE+, 2x1GbE+2x1G SFP Uplinks, 96W, Unmanaged AI Switch
E200-16GP-3CF	COMMANDO Scout E200 16x1GbE PoE/PoE+, 2x1GbE+1x1G SFP Uplinks, 200W, Unmanaged AI Switch
E200-24GP-2SFP	COMMANDO Scout E200 24x1GbE PoE/PoE+, 2x1G SFP Uplinks, 300W, Unmanaged AI Switch
E200-4GP-2CF	COMMANDO Scout E200 4x1GbE PoE+, 1x1G SFP+1x1GbE Uplinks, 65W, Unmanaged AI Switch
E200-24P-2G	COMMANDO Scout E200 24x100M PoE/PoE+, 2x1GbE Uplinks, 300W, Unmanaged AI Switch
E200-24GP-2G	COMMANDO Scout E200 24x1GbE PoE/PoE+, 2x1GbE Uplinks, 300W, Unmanaged AI Switch
E200-16GP-2SFP	COMMANDO Scout E200 16x1GbE PoE/PoE+, 2x1G SFP Uplinks, 200W, Unmanaged AI Switch

COMMANDO Scout E300 Series Unmanaged Switches

COMMANDO Scout E300 Series Unmanaged Switches consists of PoE/PoE+ power that complies IEEEE 802.3af/at and supplies 15.4W/30W of power per port. Scout E300 Switches are designed with performance and cost efficiency priority. It comes with one of the highest power budgets. Switch also removes speed and duplex mismatches automatically as well as covers larger physical distance with copper cables.

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Product Code	Description
E300-5	COMMANDO Scout E300 5x100M, Unmanaged Switch
E300-8	COMMANDO Scout E300 8x100M, Unmanaged Switch
E300-5G	COMMANDO Scout E300 5x1GbE, Unmanaged Switch
E300-16	COMMANDO Scout E300 16x100M, Unmanaged Switch
E300-24	COMMANDO Scout E300 24x100M, Unmanaged Switch
E300-16D	COMMANDO Scout E300 16x100M, Desktop, Unmanaged Switch
E300-24D	COMMANDO Scout E300 24x100M, Desktop, Unmanaged Switch
E300-8G	COMMANDO Scout E300 8x1GbE, Unmanaged Switch
E300-16G	COMMANDO Scout E300 16x1GbE, Unmanaged Switch
E300-24G	COMMANDO Scout E300 24x1GbE, Unmanaged Switch
E300-4P-2F	COMMANDO Scout E300 4x100M Full PoE/PoE+, 2x100M Uplinks, 65W, Unmanaged Switch
E300-8P-2F	COMMANDO Scout E300 8x100M Full PoE/PoE+, 2x100M Uplinks, 130W, Unmanaged Switch
E300-8P-2F-24V	COMMANDO Scout E300 8x100M 24V Full PoE, 2x100M Uplinks, 96W, Unmanaged Switch
E300-8P-2G	COMMANDO Scout E300 8x100M Full PoE/PoE+, 2x1GbE Uplinks, 130W, Unmanaged Switch
E300-4GP-2G	COMMANDO Scout E300 4x1GbE Full PoE/PoE+, 2x1GbE Uplinks, 65W, Unmanaged Switch
E300-4GP-2SFP	COMMANDO Scout E300 4x1GbE Full PoE/PoE+, 2x1G SFP Uplinks, 65W, Unmanaged Switch
E300-8GP-2G	COMMANDO Scout E300 8x1GbE Full PoE/PoE+, 2x1GbE Uplinks, 130W, Unmanaged Switch
E300-8GP-2SFP	COMMANDO Scout E300 8x1GbE Full PoE/PoE+, 2x1G SFP Uplinks, 130W, Unmanaged Switch

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E300-4GP-2M	COMMANDO Scout E300 4x1GbE Full PoE/PoE+, 2x1/2.5G SFP Uplinks, 65W, Multi-Gig Unmanaged Switch
E300-8GP-2M	COMMANDO Scout E300 8x1GbE Full PoE/PoE+, 2x1/2.5G SFP Uplinks, 130W, Multi-Gig Unmanaged Switch
E300-4GP-2MG	COMMANDO Scout E300 4x1GbE Full PoE/PoE+, 2x1/2.5GbE Uplinks, 65W, Multi-Gig Unmanaged Switch
E300-8GP-2MG	COMMANDO Scout E300 8x1GbE Full PoE/PoE+, 2x1/2.5GbE Uplinks, 130W, Multi-Gig Unmanaged Switch

COMMANDO Scout IE1000 Series Industrial Unmanaged Switches

COMMANDO Scout IE1000 Series Industrial Unmanaged Switches consists of high power PoE/PoE+ switches which support temperature range -40° C to 75° C. and complies IEEEE 802.3af/at and supplies 15.4W/30W of power per port. This Switch also removes speed and duplex mismatches automatically as well as covers larger physical distance up to 250m with copper cables.

Product Code	Description
IE1000-4GP-2SFP	COMMANDO Scout IE1000 4x1GbE Full PoE+, 2x1G SFP Uplinks, Unmanaged Industrial Switch
IE1000-8GP-2SFP	COMMANDO Scout IE1000 8x1GbE Full PoE+, 2x1G SFP Uplinks, Unmanaged Industrial Switch

COMMANDO Scout E1100 Series Multi-Gig Unmanaged Switches

COMMANDO Scout E1100 Series Multi-GigE Unmanaged Switches support AI VLAN, AI QoS, AI PoE to meet requirement in surveillance and IOT networks with Ultra-low latency and port-based QoS prioritization for uninterrupted reliable and lightning-fast connections to Wi-Fi 6 access points, storage servers, and other core and distribution switches with 10G fiber uplinks. It is a suitably best choice switch for Enterprise, Telecom, ISP, Industrial, Campus, Retail and Hospitality, Security and Surveillance, IoT, Cloud, Metro, SMBs and gaming networks. One of more differentiating factor of E1100 Series Switches are it's 2X uplinks, while many major brands offer 1x 10G SFP+ Uplinks, COMMANDO Scout E1100 Series offer 2x 10G SFP+ uplinks in most models.

Product Code	Description
E1100-5M-2X	COMMANDO Scout E1100 5x2.5GbE, 2x10G SFP+ Uplinks, Multi-Gig

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	Unmanaged Switch
E1100-8M-2X	COMMANDO Scout E1100 8x2.5GbE, 2x10G SFP+ Uplinks, Multi-Gig Unmanaged Switch
E1100-8M-2XG	COMMANDO Scout E1100 8x2.5GbE, 2x10GbE Uplinks, Multi-Gig Unmanaged Switch
E1100-16M	COMMANDO Scout E1100 16x2.5GbE Multi-Gig Unmanaged Switch
E1100-5MP-2X	COMMANDO Scout E1100 5x2.5GbE Full PoE/PoE+, 2x10G SFP+ Uplinks, 75W, Multi-Gig Unmanaged Switch
E1100-8MP-2X	COMMANDO Scout E1100 8x2.5GbE Full PoE/PoE+, 2x10G SFP+ Uplinks, 150W, Multi-Gig Unmanaged Switch
E1100-8MP-2XG	COMMANDO Scout E1100 8x2.5GbE Full PoE/PoE+, 2x10GbE Uplinks, 150W, Multi-Gig Unmanaged Switch
E1100-16MP	COMMANDO Scout E1100 16x2.5GbE Full PoE/PoE+, 290W, Multi-Gig Unmanaged Switch

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Document History

Release	What's new	Date
Release 1	First Release	January 4, 2021
Release 2	More models added	July 5, 2021
Release 3	New Models	September 18, 2023
Release 4	More products added	April 6, 2026

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