COMMANDO Scout E1000-LR Series
Long Range Unmanaged Switches

Contents

Product Overview

COMMANDO Scout E1000-LR Series Long Range Unmanaged Switches consist of switches which are ideal for long range Ethernet operation up to 1000 meters using existing copper cables suitable for surveillance cameras, Wireless devices and all IoT devices located far away from switch of small to medium-sized businesses, Internet cafes, hotels, schools, and others. 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 Fast Ethernet speeds with 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 Fast Ethernet Ports with 2/4 modular copper/Fiber Giga Ethernet Uplinks having enclosure type rack/wall mountable - 1U. Designed for long range Ethernet up to 1000 meters which lower total cost of ownership, they enable long range copper cables of access layer office and home operations.

It can be quickly set up with plug and play with Zero Touch Provisioning .These 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 auto detects Ethernet high-speed network connectivity, auto-negotiation for optimal speed detection through RJ45 Category 5, 5e or 6 cables and supports up to 1000 meters range.

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. It 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.

Product Highlights

- 8, 16, 24 * 10/100 Mbps Ethernet Ports along with flexible fiber/copper Gigabit Ethernet Uplinks and PoE (PoE+) and non PoE Models.
- All 8 to 24 ports support auto-negotiation and auto MDI/MDIX
- All ports capable long range up to 1000 meters provide full speed of data transferring with (Auto-Negotiation/Auto MDI/MDIX).
- Extra 2/4 Ports slots with flexible 1 Gigabit Ethernet Fiber/Copper Switchports or Uplinks.
- Enclosure Type Rack/Wall mountable - 1U.
- 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 High-definition Surveillance Camaras, Wireless AP, Bridges, IoT etc. according to the power budget up to 450W.
- 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.
- Easy Installation ,Plug-and-play installation with no configuration required.
- Support Store-and-forward Switching.
- Backplane Bandwidth: 5.6Gbps to 8.8Gbps

- MAC address Table: 8192 entries L2 MAC table with 4-way hashing algorithm with Independent 256-entry Forwarding table for multicast Addresses.
- MAC Address Auto-Learning and Auto-Aging.
- Surge protection ±4 kV.
- All ports support jumbo frame of size 10000 bytes transmission.
- Plug and Play design simplifies installation with self-adaption.
- Desktop as well standard rack mountable option along with fan or fanless 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.
- 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.

Features and Benefits

Easy to Use

COMMANDO Scout E1000-LR Series Switches are easy to use and manage. All switches are Plug-and-Play devices that requires no 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 or 100 according to cable distances and smartly adjusts for compatibility and optimal performance to increase the range of switches up to 1000 meters. 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-LR Series Switches 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 cameras, Networking printers, Wireless access points, VoIP phones, IoT and all PoE/PoE+ capable devices using just Ethernet cabling having range up to 1000 meters.

NOTE:

- PoE+/IEEE802.3at devices are supported up to maximum distance of 500 meters only.
- Speed of 10Mbps only is available for connected node having distance above 500m to 1000m.

Auto MDIX Capabilities

Auto sensing/Auto PoE/PoE+ 10/100 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

COMMANDO Scout E1000-LR Series Unmanaged Long Range Switches comes with one Fan or fanless models with 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.

Compact design with flexibility of additional ports

It Provides additional deployment flexibility, fiber connectivity combo options for easy expansion of your networks. So, you can directly connect to a high-performance storage server or deploy a long-distance uplink to another switch.

Support uninterrupted critical network infrastructure

It has AC input power 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 1000m and usability leads to value to money.

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, most of the packaging material can be recycled and reused.

Hardware

COMMANDO Scout E1000-LR Series Unmanaged Long Range 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) and provide long range up to 1000 meters. 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 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, 8192 entries MAC Address Table with 4-way hashing algorithm.
- Maximum packet length 10000 bytes
- Jumbo frames of 10000 bytes.
- 2-hash algorithm selection for L2 table searching/learning with Aging timer range from 0.2s to 1600000s.
- Switching Capacity : up to 8.8Gbps
- Forwarding Capacity : Up to 6.55Mpps
- Store-and-forward Switching Scheme.

Physical Ports and Networking Interfaces

- Up to 24 x 10/100/1000 Mbps Rj45 Ethernet Ports with separate ports 4 GE(RJ-45) , 4 SFP or combo port option also available with 4 GE(RJ-45) , 4 SFP with these Extra 2/4 Ports separate flexible 1 Gigabit Ethernet Fiber/Copper Switchports /Uplinks increases the switch port capacity.
- LED Indicators :Power, Link/Act, PoE Max.

IEEE 802.3af/at compliant Power over Ethernet

- Various power budget options like 150W, 260W and 450W for 8, 16 and 24 ports PoE/PoE+ Switch models. 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. Adoption of the REALTEK+TI scheme. 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.

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 Switches using Temperature Sensor. Small form-factor, fanless 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 Reliability and Efficient Design

- Mean Time Between Failure of system, MTBF >200,000 hours
- Stability: 64bit 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.

Specifications

COMMANDO Scout E1000-LR Series Long Range 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. Supports up to 16 spanning tree instances for MSTP (IEEE 802.1s), RSTP, and STP. It has 8192 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. Independent 512-entry L2/IP Multicast table for multicast function. Supports Reserved Multicast Addresses processing. It also has per-port L2 storm filtering control mechanism, which suppresses the flow rate of some specific packets for Unknown Unicast Storm, Unicast Storm, Unknown Multicast Storm, Multicast Storm, and Broadcast Storm. It also has IEEE 802.3az Energy Efficient Ethernet (EEE) for 100Base-TX in full duplex operation and supports 10Base-Te 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 100Mbps. 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 port’s received frame buffer drops below the pause threshold, it sends a pause-off frame. It has Auto MDI/MDI-X, adjusts automatically for straight-through or crossover cables and speed 10/100 on all ports to provide long range up to 1000 meters. Loop protection, If the switch detects a loop, it disables the 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. COMMANDO Scout E1000-LR Series Unmanaged Long Range Switches Technical Specifications

E1000-LR Smart Long Range Switch Parameters	Specification
Flash (KB)	16Kbytes
Packet Buffer Memory	4.1 MB
Switching Method	Store and Forward
Switching Capacity	5.6Gbps to 8.8 Gbps
	8192 entries
Maximum packet length	10000byte
PoE/PoE+ Speed and Distance supported.	
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 input power 100 to 240V AC or 180 to 240V AC (Model Dependent)
LED Indicator	Link/Act?PoE PoE MAX?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)	Fanless and Fan depending on model

Table 2. COMMANDO Scout E1000-LR Series Unmanaged Long Range Switches Basic Hardware specifications

SR #	PRODUCT CODE	Enclosure Type	Ports	Main Interface	Uplink Interfaces	Power Budget
1	E1000-8+2GE-LR	Rack/Wall mountable - 1U	8 10/100M ports 2 10/100/1000M Uplink slots	8 FE	2 GE	24W
2	E1000-8+2SFP-LR	Rack/Wall mountable - 1U	8 10/100M ports 2 1G SFP Uplink slots	8 FE	2 SFP	24W
3	E1000-8+4CF-LR	Rack/Wall mountable - 1U	8 10/100M ports 2 10/100/1000M and 2 1G SFP Uplink slots	8 FE	2 GE and 2 SFP	24W
4	E1000-16+2GE-LR	Rack/Wall mountable - 1U	16 10/100M ports 2 10/100/1000M Uplink slots	16 FE	2 GE	24W
5	E1000-16+2SFP-LR	Rack/Wall mountable - 1U	16 10/100M ports 2 1G SFP Uplink slots	16 FE	2 SFP	24W
6	E1000-16+4CF-LR	Rack/Wall mountable - 1U	16 10/100M ports 2 10/100/1000M and 2 1G SFP Uplink slots	16 FE	2 GE and 2 SFP	24W
7	E1000-24+2GE-LR	Rack/Wall mountable - 1U	24 10/100M ports 2 10/100/1000M Uplink slots	24 FE	2 GE	24W

SR #	PRODUCT CODE	Enclosure Type	Ports	Main Interface	Uplink Interfaces	Power Budget
8	E1000-24+2SFP-LR	Rack/Wall mountable - 1U	24 10/100M ports 2 1G SFP Uplink slots	24 FE	2 SFP	24W
9	E1000-24+4CF-LR	Rack/Wall mountable - 1U	24 10/100M ports 2 10/100/1000M and 2 1G SFP Uplink slots	24 FE	2 GE and 2 SFP	24W
10	E1000-8P+2GE-LR	Desktop Rack/Wall mountable	8 10/100M PoE+ ports 2 10/100/1000M Uplink slots	8 FE	2 GE	150W
11	E1000-8P+2SFP-LR	Desktop Rack/Wall mountable	8 10/100M PoE+ ports 2 1G SFP Uplink slots	8 FE	2 SFP	150W
12	E1000-8P+4CF-LR	Desktop Rack/Wall mountable	8 10/100M PoE+ ports 2 10/100/1000M and 2 1G SFP Uplink slots	8 FE	2 GE and 2 SFP	150W
13	E1000-16P+2GE-LR	Rack/Wall mountable - 1U	8 10/100M PoE+ ports 2 10/100/1000M and 2 1G SFP Uplink slots	8 FE	2 GE	260W
14	E1000-16P+2SFP-LR	Rack/Wall mountable - 1U	16 10/100M PoE+ ports 2 1G SFP Uplink slots	8 FE	2 SFP	260W
15	E1000-16P+4CF-LR	Rack/Wall mountable - 1U	16 10/100M PoE+ ports 2 10/100/1000M and 2 1G SFP Uplink slots	16 FE	2 GE and 2 SFP	260W

SR #	PRODUCT CODE	Enclosure Type	Ports	Main Interface	Uplink Interfaces	Power Budget
16	E1000-24P+2GE-LR	Rack/Wall mountable - 1U	24 10/100M PoE+ ports 2 10/100/1000M Uplink slots	16 FE	2 GE	450W
17	E1000-24P+2SFP-LR	Rack/Wall mountable - 1U	24 10/100M PoE+ ports 2 1G SFP Uplink slots	24 FE	2 SFP	450W
18	E1000-24P+4CF-LR	Rack/Wall mountable - 1U	24 10/100M PoE+ ports 2 10/100/1000M and 2 1G SFP Uplink slots	24 FE	2 GE and 2 SFP	450W

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 802.3af/at compliant end device. This ensures that cost of additional electrical cabling and circuits reduced to zero for long ranges . 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 3. COMMANDO Scout E1000-LR Series Unmanaged Long Range Switches Advanced Hardware specifications

SR #	Product Code	Max no. of PoE (IEEE 802.3af) Ports	Fan (Number)	Power Input (Single/ Dual)	Voltage (Auto Ranging)	Current	Frequency
1	E1000-8+2GE-LR	-	-	Fanless	AC	100 to 240V AC	12V to 2A	50 to 60 Hz
2	E1000-8+2SFP-LR	-	-	Fanless	AC	100 to 240V AC	12V to 2A	50 to 60 Hz

SR #	Product Code	Max no. of PoE (IEEE 802.3af) Ports	Fan (Number)	Power Input (Single/ Dual)	Voltage (Auto Ranging)	Current	Frequency
3	E1000-8+4CF-LR	-	-	Fanless	AC	100 to 240V AC	12V to 2A	50 to 60 Hz
4	E1000-16+2GE-LR	-	-	Fanless	AC	100 to 240V AC	12V to 2A	50 to 60 Hz
5	E1000-16+2SFP-LR	-	-	Fanless	AC	100 to 240V AC	12V to 2A	50 to 60 Hz
6	E1000-16+4CF-LR	-	-	Fanless	AC	100 to 240V AC	12V to 2A	50 to 60 Hz
7	E1000-24+2GE-LR	-	-	Fanless	AC	100 to 240V AC	12V to 2A	50 to 60 Hz
8	E1000-24+2SFP-LR	-	-	Fanless	AC	100 to 240V AC	12V to 2A	50 to 60 Hz
9	E1000-24+4CF-LR	-	-	Fanless	AC	100 to 240V AC	12V to 2A	50 to 60 Hz
10	E1000-8P+2GE-LR	5 ports up to 30W	All ports up to 15.4W	Fanless	AC	100 to 240V AC	54V to 2.78A	50 to 60 Hz
11	E1000-8P+2SFP-LR	5 ports up to 30W	All ports up to 15.4W	Fanless	AC	100 to 240V AC	54V to 2.78A	50 to 60 Hz

SR #	Product Code	Max no. of PoE (IEEE 802.3af) Ports	Fan (Number)	Power Input (Single/ Dual)	Voltage (Auto Ranging)	Current	Frequency
12	E1000-8P+4CF-LR	5 ports up to 30W	All ports up to 15.4W	Fanless	AC	100 to 240V AC	54V to 2.78A	50 to 60 Hz
13	E1000-16P+2GE-LR	8 ports up to 30W	All ports up to 15.4W	Fanless	AC	180 to 240V AC	54V to 4.5A; 12V to 2A	50 to 60 Hz
14	E1000-16P+2SFP-LR	8 ports up to 30W	All ports up to 15.4W	Fanless	AC	180 to 240V AC	54V to 4.5A; 12V to 2A	50 to 60 Hz
15	E1000-16P+4CF-LR	8 ports up to 30W	All ports up to 15.4W	Fanless	AC	180 to 240V AC	54V to 4.5A; 12V to 2A	50 to 60 Hz
16	E1000-24P+2GE-LR	15 ports up to 30W	All ports up to 15.4W	1	AC	180 to 240V AC	54V to 7.5A□12 V to 4A	50 to 60 Hz
17	E1000-24P+2SFP-LR	15 ports up to 30W	All ports up to 15.4W	1	AC	180 to 240V AC	54V to 7.5A□12 V to 4A	50 to 60 Hz
18	E1000-24P+4CF-LR	15 ports up to 30W	All ports up to 15.4W	1	AC	180 to 240V AC	54V to 7.5A□12 V to 4A	50 to 60 Hz

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 4. COMMANDO Scout E1000-LR Series Unmanaged Long Range Switches Switching capacity, packet buffer memory and MTBF Specifications

SR #	Product Code	Switching Capacity (Gbps)	Packet Filtering Forwarding Rates (64-byte packet size Mpps)	Mean time between failures MTBF (hours)	
1	E1000-8+2GE-LR	5.6	4.17	315606	81.89
2	E1000-8+2SFP-LR	5.6	4.17	318985	81.89
3	E1000-8+4CF-LR	5.6	4.17	291565	81.89
4	E1000-16+2GE-LR	7.2	5.36	305156	81.89
5	E1000-16+2SFP-LR	7.2	5.36	451156	81.89
6	E1000-16+4CF-LR	7.2	5.36	285163	81.89
7	E1000-24+2GE-LR	8.8	6.55	315651	81.89
8	E1000-24+2SFP-LR	8.8	6.55	318951	81.89
9	E1000-24+4CF-LR	8.8	6.55	218916	81.89
10	E1000-8P+2GE-LR	5.6	4.17	219516	511.82
11	E1000-8P+2SFP-LR	5.6	4.17	415165	511.82
12	E1000-8P+4CF-LR	5.6	4.17	310589	511.82
13	E1000-16P+2GE-LR	7.2	5.36	305191	887.16
14	E1000-16P+2SFP-LR	7.2	5.36	296510	887.16
15	E1000-16P+4CF-LR	7.2	5.36	310516	887.16
16	E1000-24P+2GE-LR	8.8	6.55	215661	1535.46
17	E1000-24P+2SFP-LR	8.8	6.55	296156	1535.46
18	E1000-24P+4CF-LR	8.8	6.55	315855	1535.46

Table 5. COMMANDO Scout E1000-LR Series Long Range Unmanaged Switches LED Indication

LED Indication on Switch	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: 100 Mbps connected. Amber ON: 10 Mbps connected. Green Flashing: 100 Mbps connected and Data in transit Amber Flashing: 10 Mbps connected and Data in transit
System	Green OFF: The system is starting please wait Green ON: The system is up and running
PoE	OFF: PoE/PoE+ power is not provided on port Blue ON: PoE/PoE+ power is provided on port
PoE MAX	PoE MAX OFF: PoE Power budget is available in switch Red ON: PoE Power budget is 95%

Included in the bundle/box

All Scout E1000-LR 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-LR Series Switch

1x Power cable

1x Console cable

1x Rack/Wall mountable kit

Support and Warranty

- Same-day assistance.
- Comprehensive 24-hour support using common communication/chat platforms, Email and Telephone.
- Provide FAQs and troubleshooting help online (self-service) through cloud-based solutions.
- Highly technical and trained representatives to resolve issues.
- One-year default warranty with option of warranty extension up to 3 years

Table 6. Support and Warranty

Warranty and Support	
Products covered	COMMANDO Soldier E1000-LR Series Long Range Unmanaged Switches
Warranty duration	One Year RTB (Return To Base) replacement warranty – optionally extendable up to 3 years.
Hardware replacement	COMMANDO its resellers or its service center will use commercially reasonable efforts to replace the product subject to stock availability. Otherwise a replacement will be arranged within 15 working days after receipt of the Return Materials Authorization (RMA) request.
End-of-life policy	In case of discontinuation of the product support is limited to 3 years from announcement date.
Effective date	Hardware warranty commences from the date of shipment to customer (and in case of resale by a COMMANDO reseller not more than 90 days after original shipment by COMMANDO).
Support duration	Lifetime support.
COMMANDO Care	COMMANDO will provide 24x7 support for basic configuration diagnosis and troubleshooting of device-level problems for up to one year from the date of shipment of the originally purchased product. This support does not include solution or network-level support beyond the specific device under consideration.
Online Portal Access	Warranty allows guest access to commandonetworks.com for all available technical queries.

Ordering Information

Table 7. COMMANDO Scout E1000-LR Series Unmanaged Long Range Switches Ordering Information

Product Code	Description
E1000-8+2SFP-LR	COMMANDO Scout E1000 8FE 2SFP Uplinks Unmanaged Long Range Switch
E1000-8+4CF-LR	COMMANDO Scout E1000 8FE 2GE/2SFP Uplinks Unmanaged Long Range Switch

Product Code	Description
E1000-8+2GE-LR	COMMANDO Scout E1000 8FE 2GE Uplinks Unmanaged Long Range Switch
E1000-8P+2SFP-LR	COMMANDO Scout E1000 8FE PoE+ 2SFP Uplinks 150W Unmanaged Long Range Switch
E1000-8P+4CF-LR	COMMANDO Scout E1000 8FE PoE+ 2GE/2SFP Uplinks 150W Unmanaged Long Range Switch
E1000-8P+2GE-LR	COMMANDO Scout E1000 8FE PoE+ 2GE Uplinks 150W Unmanaged Long Range Switch
E1000-24+2SFP-LR	COMMANDO Scout E1000 24FE 2SFP Uplinks Unmanaged Long Range Switch
E1000-24+4CF-LR	COMMANDO Scout E1000 24FE 2GE/2SFP Uplinks Unmanaged Long Range Switch
E1000-24+2GE-LR	COMMANDO Scout E1000 24FE 2GE Uplinks Unmanaged Long Range Switch
E1000-24P+2SFP-LR	COMMANDO Scout E1000 24FE PoE+ 2SFP Uplinks 450W Unmanaged Long Range Switch
E1000-24P+4CF-LR	COMMANDO Scout E1000 24FE PoE+ 2GE/2SFP Uplinks 450W Unmanaged Long Range Switch
E1000-24P+2GE-LR	COMMANDO Scout E1000 24FE PoE+ 2GE Uplinks 450W Unmanaged Long Range Switch
E1000-16+2SFP-LR	COMMANDO Scout E1000 16FE 2SFP Uplinks Unmanaged Long Range Switch

Product Code	Description
E1000-16+4CF-LR	COMMANDO Scout E1000 16FE 2GE/2SFP Uplinks Unmanaged Long Range Switch
E1000-16+2GE-LR	COMMANDO Scout E1000 16FE 2GE Uplinks Unmanaged Long Range Switch
E1000-16P+2SFP-LR	COMMANDO Scout E1000 16FE PoE+ 2SFP Uplinks 260W Unmanaged Long Range Switch
E1000-16P+4CF-LR	COMMANDO Scout E1000 16FE PoE+ 2GE/2SFP Uplinks 260W Unmanaged Long Range Switch
E1000-16P+2GE-LR	COMMANDO Scout E1000 16FE PoE+ 2GE Uplinks 260W Unmanaged Long Range Switch

Document History

Release	New or Revision	Described in	Date
Release 1	First Release	First Release	January 4 2021