COMMANDO Scout E300 Series Unmanaged Switches

Data Sheet

Contents

Product Overview

COMMANDO Scout E300 Series Unmanaged Switches consists of switches which are ideal for 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 Gigabit Ethernet speeds as well as PoE/PoE+ or 24V PoE capability while reducing energy consumption and minimizing noise. This series switches are available in 4 to 24 Gigabit Ethernet ports and Multi-Gig ports, 4 to 24 Fast Ethernet Ports with two either 1FE or 1GE copper/ 1G / 2.5G fiber Uplinks. Designed for operational simplicity to lower total cost of ownership, they enable scalable access layer office and home operations.

This series switches comes with DIP Switch which has DIP switch control working mode namely Extend for Port 1-8 support up to 250m distance power supply and Ethernet range. VLAN for Isolating ports 1-24 from each other can effectively suppress network storms and improve network performance. QoS for Prioritize the identified video data to make video transmission smoother. PoE for automatic detection power of port, power off and restart.

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+/24V 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+/24V PoE power output for transmissions based on the cable length for PoE/PoE+/24V PoE devices connected. It can also set any ports that are not transmitting traffic to sleep mode.

Product Highlights

- DIP Switch control functions like Functions VLAN, EXTEND, PoE & QoS.
- 4 to 24 x 10/100Mbps or 10/100/1000Mbps and 10/100/1000/2500Mbps Multi-Gig ports along with fixed 2G / 2.5G fiber / 2GE or 2FE copper Uplinks and PoE/PoE+/ Passive PoE & Non PoE Models.
- All 4 to 24 ports support auto-negotiation and auto MDI/MDIX.
- Extra Ports slots with flexible Ethernet Copper/Fiber Switch ports or Uplinks.
- Dual Inline Package switch in this series switch is a physical switch used for quick, hands-on configuration without needing any software requirment. It allows users to instantly enable or disable features like PoE Extend mode (to send power and data up to 250 meters), port isolation, QoS, and PD-Alive to reboot unresponsive devices.
- Enclosure Type either Desktop or Rack/Wall mountable - 1U.
- PoE/PoE+/24V PoE models to provide power on all ports to IEEE 802.3af, IEEE 802.3at and passive PoE capable PD devices which include Wireless AP, Bridges, IoT etc. having power budget up to 130W.
- Ports have both PoE/PoE+ capability with 30W Max Per port or 24V PoE power as per model.
- PD detection will automatically detect power for your PoE/PoE+ devices.
- MAC address Table size of 2K entries with Auto-Learning and Auto-Aging
- Easy Installation, Plug-and-play installation with no configuration required
- Support Store-and-forward Switching with Backplane Bandwidth of 1Gbps to 48Gbps
- Surge protection ±2 kV
- All ports support jumbo frame transmission.
- Plug and Play design simplifies installation with self-adaption.
- Compact, fan-less, 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 cable length.
- With Zero Touch Provisioning with Plug and play and no setup.
- Affordable, Easy-to-Use Switches for Small Business Networks, with Zero Configuration Required

Features and Benefits

DIP switch Control Function

Extend Mode: It increases the distance for both power and data transmission, typically to 250 meters (820 feet), at the cost of reducing the data speed to 10 Mbps. This is useful for devices located far away from the switch.

Port Isolation: It prevents communication between other ports on the same switch, which can enhance security by isolating devices like access points or cameras from one another.

PD-Alive (or AI PoE): It automatically detects if a powered device (PD) has become unresponsive and reboots it by cycling the power on that specific port, saving the need for a manual reset or a site visit.

QoS (Quality of Service): It enables Quality of Service settings to prioritize certain types of network traffic.

PoE/PoE+ Capabilities

COMMANDO Scout E300 Series Switches some models Support up to 130W (PoE/PoE+) Power Budget. This series switches smartly adjust IEEE802.3af/ IEEE802.3at (PoE/PoE+) with 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, Wireless access points, VoIP phones, IoT and all PoE/PoE+ capable devices using just Ethernet cabling.

Passive PoE Capabilities

COMMANDO Scout E300 Series Switches some models Support up to 130W non-standard form of PoE used to power over the Ethernet cable, but no negotiation or communication process is required. Passive PoE doesn't conform to any IEEE standards usually refers to any device using PoE that is not 802.3af or 802.3at such as wireless bridges, cameras and radio antennas that run on 24V PoE, It does not perform a handshake, So it is extremely important to know what PoE voltage your device requires before plugging in the Ethernet cable and powering it up. If you connect the wrong voltage you may cause permanent electrical damage to the device.

Auto MDIX capabilities

Auto sensing/Auto PoE/PoE+ 10/100M or 10/100/1000/2500M 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, Fan-less and Noise-less performance

Small form-factor, fan-less design for silent operation. Perfect for noise sensitive environments.

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.

Easy to Use

COMMANDO Scout E300 Series Switches are easy to use and manage. All switches are unmanaged, Plug-and-Play devices that requires no configuration, so setup is simple and hassle-free. It is having desktop or rack mounting /wall mounting enclosure option as per model basis. 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, 1000, 2500) and smartly adjusts for compatibility and optimal performance. Its compact size makes it ideal for desktops with limited space.

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.

Supports Uninterrupted Critical Network Infrastructure

It has DC input power to enable UPS to mitigate power supply failures. It automatically senses when the internal power supply of a connected device fails and provides power to that device, preventing loss of network traffic and support critical network infrastructure. These series Switches protect from power surges through their inline power supply automatically and have in build Surge protection of ±2KV. 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.

Hardware

COMMANDO Scout E300 Series Switches supports DIP Switch control functions namely VLAN, EXTEND, PoE & QoS. It has Ethernet standards like 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

- All ports capable of Auto-Negotiation/Auto MDI/MDIX.
- Solid performance with non-blocking architecture, 2K entries MAC Address Table with 4-way hashing algorithm.
- Maximum packet length 2048 bytes.
- 2-hash algorithm selection for L2 table searching/learning with Aging timer range from 0.2s to 1600000s.
- Switching Capacity: up to 48 Gbps
- Forwarding Capacity: Up to 71.42 Mpps
- Store-and-forward Switching Scheme.

Physical Ports and Networking Interfaces

- Up to 24 x 10/100 Mbps, 10/100/1000 Mbps Rj45 Ethernet Ports and 10/100/1000/2500 Mbps Multi-Gig ports with separate 2FE/2GE (RJ-45) / 2G (SFP fiber). With Extra fixed 2 Ports increase port capacity with flexible Ethernet 1G Fiber/ 1GE/ 1FE Copper for additional separate Switchports /Uplinks.
- LED Indicators: Power, Link/Act.

DIP Switch Working mode

- **Extend:** Port 1-8 support up to 250m distance power supply

- VLAN: Isolating ports 1-24 from each other can effectively suppress network storms and improve network performanc
- QoS: Prioritize the identified video data to make video transmission smoother
- PoE: Automatic detection power of port, power off and restart

IEEE 802.3af/at Compliant Power over Ethernet

- Power budget 12W to 130W depending on model for 4 & 8 ports PoE/PoE+/ Passive PoE Switch models. 30W Max Per port (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+. All port can delivers 15.4 W PoE as well as 30 W PoE+ power. PD detection will automatically detect and provide required power for your PoE/PoE+ PD 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 ±2KV 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.
- Desktop, 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 Silent 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.

- Small form-factor, fan-less design for silent operation. Perfect for noise sensitive environments.

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 > 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 E300 series 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.

Table 1. Technical Specifications

Parameter	Specification
Flash (KB)	16Kbytes
Switching Method	Store and Forward
MAC Address Table Size	2K entries
DIP Switch control functions	VLAN, EXTEND, PoE & QoS
Maximum packet length	2048 bytes
Operation Temperature	0° to 55°C
Storage Temperature	-20° to 70°C
Operation Humidity (relative, non- condensing)	10% to 90%
Storage Humidity (relative, non- condensing)	5% to 90%
Input Power Supply	DC: 12V-1A, AC: 180~240V 50/60Hz, AC: 100~240V 50/60Hz (Model Dependent)
Weight	<2Kg
LED Indicator	Link/Act,Power
Energy Saving	Comply with “EEE” Energy Efficient Ethernet (IEEE 802.3az)
Surge protection (kV)	±2 kV
Rack-mountable	Desktop and Rack-mountable

Fan (Number)	Fan-less

Auto MDI/MDI-X adjusts automatically for straight-through or crossover cables on all 10/100/1000 ports. 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 provide greater distance connectivity using Gigabit fiber uplinks. The switch provides an estimated cumulative energy savings due to green Ethernet features being auto enabled.

Table 2. Basic Hardware Specifications

PRODUCT CODE	Ports	Main Interface	Uplink Interfaces
E300-5	5 x 10/100Mbps Ethernet ports	5 FE	-
E300-8	8 x 10/100Mbps Ethernet ports	8 FE	-
E300-5G	5 x 10/100/1000Mbps Ethernet ports	5 GE	-
E300-16	16 x 10/100Mbps Ethernet ports	16 FE	-
E300-24	24 x 10/100Mbps Ethernet ports	24 FE	-
E300-16D	16 x 10/100Mbps Ethernet ports	16 FE	-
E300-24D	24 x 10/100Mbps Ethernet ports	24 FE	-
E300-8G	8 x 10/100/1000Mbps Ethernet ports	8 GE	-
E300-16G	16 x 10/100/1000Mbps Ethernet ports	16 GE	-
E300-24G	24 x 10/100/1000Mbps Ethernet ports	24 GE	-
E300-4P-2F	4 x 10/100Mbps Ethernet PoE+ ports 2 x 10/100Mbps Ethernet Uplink ports	4 FE	2 FE
E300-8P-2F	8 x 10/100Mbps Ethernet PoE+ ports 2 x 10/100Mbps Ethernet Uplink ports	8 FE	2 FE

E300-8P-2F-24V	8 x 10/100Mbps Ethernet Passive PoE 24V ports 2 x 10/100Mbps Ethernet Uplink ports	8 FE	2 FE
E300-8P-2G	8 x 10/100Mbps Ethernet PoE+ ports 2 x 10/100/1000Mbps Ethernet Uplink ports	8 FE	2 GE
E300-4GP-2G	4 x 10/100/1000Mbps Ethernet PoE+ ports 2 x 10/100/1000Mbps Ethernet Uplink ports	4 GE	2 GE
E300-4GP-2SFP	4 x 10/100/1000Mbps Ethernet PoE+ ports 2 x 1G SFP Uplink ports	4 GE	2 SFP
E300-8GP-2G	8 x 10/100/1000Mbps Ethernet PoE+ ports 2 x 10/100/1000Mbps Ethernet Uplink ports	8 GE	2GE
E300-8GP-2SFP	8 x 10/100/1000Mbps Ethernet PoE+ ports 2 x 1G SFP Uplink ports	8 GE	2 SFP
E300-4GP-2M	4 x 10/100/1000Mbps Ethernet PoE+ ports 2 x 1/2.5G SFP Uplink ports	4 GE	2M
E300-8GP-2M	8 x 10/100/1000Mbps Ethernet PoE+ ports 2 x 1/2.5G SFP Uplink ports	8 GE	2M
E300-4GP-2MG	4 x 10/100/1000Mbps Ethernet PoE+ ports 2 x 10/100/1000/2500Mbps Ethernet Uplink ports	4 GE	2MG
E300-8GP-2MG	8 x 10/100/1000Mbps Ethernet PoE+ ports 2 x 10/100/1000/2500Mbps Ethernet Uplink ports	8 GE	2MG

Table 3. Power Budget and Enclosure Type

PRODUCT CODE	Power Budget	Enclosure Type
E300-5	12W	Desktop
E300-8	12W	Desktop
E300-5G	12W	Desktop
E300-16	12W	Desktop, Rack/Wall mountable - 1U
E300-24	12W	Desktop, Rack/Wall mountable - 1U
E300-16D	12W	Desktop
E300-24D	12W	Desktop
E300-8G	12W	Desktop
E300-16G	24W	Desktop, Rack/Wall mountable - 1U
E300-24G	24W	Desktop, Rack/Wall mountable - 1U
E300-4P-2F	65W	Desktop
E300-8P-2F	130W	Desktop
E300-8P-2F-24V	96W	Desktop
E300-8P-2G	130W	Desktop
E300-4GP-2G	65W	Desktop
E300-4GP-2SFP	65W	Desktop
E300-8GP-2G	130W	Desktop

E300-8GP-2SFP	130W	Desktop
E300-4GP-2M	65W	Desktop
E300-8GP-2M	130W	Desktop
E300-4GP-2MG	65W	Desktop
E300-8GP-2MG	130W	Desktop

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 30W per port, and 24V Passive PoE which allows support of the latest PoE/PoE+ Passive PoE capable devices such as Video IP phones, wireless access points, and advanced pan/tilt/zoom security cameras, as well as any 24V non-standard PoE compliant end device. This ensures that cost of additional electrical cabling and circuits reduced to zero. PoE/ PoE+/ Passive PoE availability on all ports.

Table 4. Advanced Hardware Specifications

Product Code	Max no. of PoE+ (IEEE 802.3at) Ports	Max no. of PoE (IEEE 802.3af) Ports	Power Supply
E300-5	-	-	DC: 12V-1A
E300-8	-	-	DC: 12V-1A
E300-5G	-	-	DC: 12V-1A
E300-16	-	-	AC: 100~240V 50/60Hz
E300-24	-	-	AC: 100~240V 50/60Hz
E300-16D	-	-	AC: 100~240V 50/60Hz
E300-24D	-	-	AC: 100~240V 50/60Hz
E300-8G	-	-	DC: 12V-1A

E300-16G	-	-	AC: 100~240V 50/60Hz
E300-24G	-	-	AC: 100~240V 50/60Hz
E300-4P-2F	2 ports up to 30W	All ports up to 15.4W	AC: 180~240V 50/60Hz
E300-8P-2F	4 ports up to 30W	All ports up to 15.4W	AC: 180~240V 50/60Hz
E300-8P-2F-24V	-	All ports up to 24V	AC: 180~240V 50/60Hz
E300-8P-2G	4 ports up to 30W	All ports up to 15.4W	AC: 180~240V 50/60Hz
E300-4GP-2G	2 ports up to 30W	All ports up to 15.4W	AC: 180~240V 50/60Hz
E300-4GP-2SFP	2 ports up to 30W	All ports up to 15.4W	AC: 180~240V 50/60Hz
E300-8GP-2G	4 ports up to 30W	All ports up to 15.4W	AC: 180~240V 50/60Hz
E300-8GP-2SFP	4 ports up to 30W	All ports up to 15.4W	AC: 180~240V 50/60Hz
E300-4GP-2M	2 ports up to 30W	All ports up to 15.4W	AC: 180~240V 50/60Hz
E300-8GP-2M	4 ports up to 30W	All ports up to 15.4W	AC: 180~240V 50/60Hz
E300-4GP-2MG	2 ports up to 30W	All ports up to 15.4W	AC: 180~240V 50/60Hz
E300-8GP-2MG	4 ports up to 30W	All ports up to 15.4W	AC: 180~240V 50/60Hz

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. Switching Capacity, Forwarding Rate and MTBF Specifications

PRODUCT CODE	Switching Capacity (Gbps)	Packet Filtering Forwarding Rates (64-byte packet size Mpps)	Mean time between failures MTBF (hours)
E300-5	1	0.74	318995
E300-8	1.6	1.19	318995
E300-5G	10	7.44	249564
E300-16	3.2	2.38	318995
E300-24	4.8	3.57	399452
E300-16D	3.2	2.38	318995
E300-24D	4.8	3.57	399452
E300-8G	16	11.90	249564
E300-16G	32	23.80	249564
E300-24G	48	35.71	319052
E300-4P-2F	1.2	0.89	240564
E300-8P-2F	2	1.48	215640
E300-8P-2F-24V	2	1.48	214951
E300-8P-2G	5.6	4.16	209454
E300-4GP-2G	12	8.92	200564
E300-4GP-2SFP	12	8.92	290133
E300-8GP-2G	20	14.88	289344
E300-8GP-2SFP	20	14.88	289344
E300-4GP-2M	18	13.39	290133

E300-8GP-2M	26	19.34	289344
E300-4GP-2MG	18	13.39	290133
E300-8GP-2MG	26	19.34	289344

Table 6. 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 LED: OFF: Port disconnected or link fail. Green ON: 10/100Mbps or 10/100/1000Mbps connected. Green Flashing: 10/100/ 1000Mbps connected and Data in transit

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 Pair cable	**10/100Base-TX:** STP category 5/5e/6 cables (Maximum 250m) **1000Base-T:** UTP Category 5/5e/6 cable (Maximum 100m)	250M/100M
Optical Fiber Cable	550M~120KM Depending on SFP	120KM

SFP ports Slots specifications

It has 1G/1GE/2.5G/2.5GE Gigabit Ethernet fiber-based or Gigabit Ethernet copper based Small Form-Factor Pluggable with granular port densities that fit diverse campus 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 8. 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-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-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
SFP-UTP-10G	COMMANDO CopperX 10GBASE-T RJ45, SFP+, 30m, CAT 6a/7, Multi-brand	10G	30m

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 9. Power supply specifications

Description	Rating
Power supply	AC or DC Depending on models
Input-voltage	DC: 12V-1A AC: 100~240V 50/60Hz AC: 180~240V 50/60Hz Depending on models

Included in the bundle/box

All Scout E300 Series Unmanaged 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 E300 Series Switch

1x DC: 12V-1A or AC: 100~240V 50/60Hz or AC: 180~240V 50/60Hz Adapter with Cable depending on model

Warranty and Support

COMMANDO Scout E300 Series Switches come with replacement warranty and provided support according to COMMANDO WarrantyX Program available on:

https://www.commandonetworks.com/warranty

Ordering Information

Table 10 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 10. Ordering Information

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

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

Please note:
The model numbers of newer version products are further simplified such as + is updated to – and FE and GE updated to F and G only respectively. However, the product remains same and can be treated interchangeably.

Examples:
E300-8P+2FE is updated to E300-8P-2F
E300-8GP+2GE is updated to E300-8GP-2G

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 5FE, Unmanaged Switch
E100-8	COMMANDO Scout E100 8FE, Unmanaged Switch
E100-5G	COMMANDO Scout E100 5GE, Unmanaged Switch
E100-8G	COMMANDO Scout E100 8GE, 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 4FE PoE/PoE+, 2FE Uplinks, 65W, Unmanaged AI Switch
E200-8P-2F	COMMANDO Scout E200 8FE PoE/PoE+, 2FE Uplinks, 96W, Unmanaged AI Switch
E200-8P-2G	COMMANDO Scout E200 8FE PoE/PoE+, 2GE Uplinks, 96W, Unmanaged AI Switch
E200-16P-3CF	COMMANDO Scout E200 16FE PoE/PoE+, 2GE+1SFP Uplinks, 200W, Unmanaged AI Switch
E200-24P-2SFP	COMMANDO Scout E200 24FE PoE/PoE+, 2SFP Uplinks, 300W, Unmanaged AI Switch
E200-4GP-2SFP	COMMANDO Scout E200 4GE PoE/PoE+, 2SFP Uplinks, 65W, Unmanaged AI Switch
E200-4GP-2G	COMMANDO Scout E200 4GE PoE/PoE+, 2GE Uplinks, 65W, Unmanaged AI Switch
E200-8GP-2SFP	COMMANDO Scout E200 8GE PoE/PoE+, 2SFP Uplinks, 96W, Unmanaged AI Switch
E200-8GP-2G	COMMANDO Scout E200 8GE PoE/PoE+, 2GE Uplinks, 96W, Unmanaged AI Switch
E200-8GP-4CF	COMMANDO Scout E200 8GE PoE/PoE+, 2GE+2SFP Uplinks, 96W, Unmanaged AI Switch
E200-16GP-3CF	COMMANDO Scout E200 16GE PoE/PoE+, 2GE+1SFP Uplinks, 200W, Unmanaged AI Switch
E200-24GP-2SFP	COMMANDO Scout E200 24GE PoE/PoE+, 2SFP Uplinks, 300W, Unmanaged AI Switch
E200-4GP-2CF	COMMANDO Scout E200 4x1GbE PoE+, 1SFP+1GbE Uplinks, 65W, Unmanaged AI Switch

E200-24P-2G	COMMANDO Scout E200 24FE PoE/PoE+, 2GE Uplinks, 300W, Unmanaged AI Switch
E200-24GP-2G	COMMANDO Scout E200 24GE PoE/PoE+, 2GE Uplinks, 300W, Unmanaged AI 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 4GE Full PoE/Full PoE+, 2SFP Uplinks, Unmanaged Industrial Switch
IE1000-8GP-2SFP	COMMANDO Scout IE1000 8GE Full PoE/Full PoE+, 2SFP Uplinks, Unmanaged Industrial Switch

COMMANDO SCOUT E1000 Series Unmanaged Switches

COMMANDO Scout E1000 Series Unmanaged Switches consists of high power PoE/PoE+ switches models to provide power on all ports. It can provide power and connectivity to Wireless AP, Bridges, IoT etc. Automatically adjust the PoE/PoE+ power for connected PoE devices based on the cable length and supports up to 250m of copper cable length. Scout E1000 is designed with performance and cost efficiency priority.

Product Code	Description
E1000-16P-4CF	COMMANDO Scout E1000 16FE PoE+, 2GE/2SFP Combo Uplinks, 260W, Unmanaged Switch
E1000-24P-4CF	COMMANDO Scout E1000 48FE PoE+, 2GE/2SFP Combo Uplinks, 450W, Unmanaged Switch
E1000-8GP-4CF	COMMANDO Scout E1000 8GE PoE+, 2GE+2SFP Uplinks, 150W, Unmanaged Switch
E1000-16GP-4CF	COMMANDO Scout E1000 16GE PoE+, 2GE+2SFP Uplinks, 260W, Unmanaged Switch
E1000-24GP-4CF	COMMANDO Scout E1000 24GE PoE+, 2GE+2SFP Uplinks, 450W, Unmanaged Switch
E1000-8X	COMMANDO Scout E1000 8x10G SFP+, Unmanaged Fiber Switch
E1000-8SFP-2G	COMMANDO Scout E1000 8x1G SFP, 2GE Uplinks, Unmanaged Fiber Switch
E1000-24GP-4SFP	COMMANDO Scout E1000 24GE Full PoE/PoE+, 4SFP Uplinks, 450W, Unmanaged 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 5x2.5G, 2x10G SFP+ Uplinks, Multi-Gig Unmanaged Switch
E1100-8M-2X	COMMANDO Scout E1100 8x2.5G, 2x10G SFP+ Uplinks, Multi-Gig Unmanaged Switch
E1100-8M-2XG	COMMANDO Scout E1100 8x2.5G, 2x10GbE Uplinks, Multi-Gig Unmanaged Switch
E1100-16M	COMMANDO Scout E1100 16x2.5G Multi-Gig Unmanaged Switch
E1100-5MP-2X	COMMANDO Scout E1100 5x2.5G Full PoE/PoE+, 2x10G SFP+ Uplinks, 75W, Multi-Gig Unmanaged Switch
E1100-8MP-2X	COMMANDO Scout E1100 8x2.5G Full PoE/PoE+, 2x10G SFP+ Uplinks, 150W, Multi-Gig Unmanaged Switch
E1100-8MP-2XG	COMMANDO Scout E1100 8x2.5G Full PoE/PoE+, 2x10GbE Uplinks, 150W, Multi-Gig Unmanaged Switch
E1100-16MP	COMMANDO Scout E1100 16x2.5G Full PoE/PoE+ 290W Multi-Gig Unmanaged Switch

Document History

Release	What's new	Date
Release 1	First Release	January 4, 2021
Release 2	More models added	June 8, 2022
Release 3	More models added	September 18, 2023
Release 4	More products added	April 6, 2026