COMMANDO Scout E100 Series Unmanaged Switches

Data Sheet

Contents

Product Overview

COMMANDO Scout E100 Series switches are Unmanaged plastic, Plug and Play switches. It is an economical way for SOHO to take advantage of Gigabit Ethernet speeds while reducing energy consumption and minimizing noise output. This Series switches are available in 5 and 8 Fast and Gigabit Ethernet ports. Designed for operational simplicity to lower total cost of ownership, they enable scalable access layer home and small office operations.

COMMANDO Scout E100 Series switches can be quickly set up with plug and play with Zero Touch Provisioning with desktop enclosure. COMMANDO Scout E100 Series Unmanaged SOHO (Small Office/Home Office) Switches are designed for small business networks. The Unmanaged Switches empower your growing business with instant connectivity and reliable performance at a very affordable cost. All the RJ45 copper interfaces support 10/100Mbps & 10/100/1000Mbps Speed on all ports depending on models for high-speed network connectivity, auto-negotiation for optimal speed detection through RJ45 Category 5, 5e or 6 cables.

COMMANDO Scout E100 Series switches 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.

Product Highlights

- Cost efficient 5 and 8 Fast Ethernet ports 10/100Mbps and 10/100/1000Mbps Gigabit Ethernet switch models
- 8-Pin RJ45 Ethernet ports ensuring efficient data transfer
- Supports Auto-Negotiation by auto sensing the link speed of a network device (either 10, 100, or 1000 Mbps) and intelligently adjusts for compatibility and optimal performance
- Supports Auto MDI/MDIX eliminates the need for crossover cables
- All ports capable of Gigabit Ethernet connections and provide full speed of data transmission with (Auto-Negotiation/Auto MDI/MDIX) model
- Plug and play with zero configuration installation
- Supports Store-and-forward Switching
- Supports MAC address auto-learning and auto-aging
- Backplane Bandwidth: 1Gbps-16Gbps
- MAC address Table: 1K-4K
- MAC Address Auto-Learning and Auto-Aging
- Surge Protection ±2kV
- All ports support jumbo frame transmission
- Plastic casing, compact, fan-less with desktop and wall-mounting design
- Supports Power down Idle Ports – When a computer or network equipment is idle or off, the corresponding port of a traditional switch will continue to consume considerable amount of power. However, COMMANDO Scout E100 Series switches can automatically detect the link status of each port and reduce the power consumption of ports that are idle.
- Green Ethernet technology saving power up to 70%
- IEEE 802.3x flow control provides reliable data transfer
- Comes with One Year warranty

Features and Benefits

Easy to Use
Fast Ethernet/ Gigabit Unmanaged SOHO Switch with Auto-negotiation on each port senses the link speed of a network device (10, 100, or 1000 Mbps) and intelligently adjusts for compatibility and optimal performance. Its compact size makes it ideal for desktops with limited space. Dynamic LED lights provide real-time work status display and basic fault diagnosis. Easy installation, Plug-and-play installation with no configuration required.

Auto MDI / MDIX Capabilities
Auto sensing/Auto 10/100 or 10/100/1000M ports with auto MDI / 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, Desktop/Wall-mount Design
Small form-factor, fan-less design for silent operation. Perfect for noise sensitive SOHO environments. It's plastic casing with Desktop as well as Wall-mounting design.

Cost Efficient
Scout E100 Series switches are most cost-efficient solution in 10/100M and 10/100/100M speed switches. Packed with performance needed in modern day SOHO environment, these switches can serve on real time high-speed performance with DC input power which covers larger physical distance with copper pairs compared to other switches in its class. These switches are reliable, conforms to international open standard and highly aesthetic in SOHO setup.

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 E100 Series Switches support 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, Energy Efficient Ethernet. 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, 1K-4K entries MAC Address Table.

- 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 16Gbps

- Store-and-forward Switching Scheme.

Physical Ports and Networking Interfaces

- Up to 8 x 10/100 or 10/100 or 1000 Mbps Rj45 Ethernet Ports

- LED Indicators: Power, Link/Act.

Extra Long Operational life

- High Quality PCB Circuit Board and PCB Surface Treatment Using Gold Sinking Process.

- Support temperature range 0° C to 50° C

- Surge protection up to ±1KV 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.

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, IEEE 802.3az Energy Efficient Ethernet.

Specifications

COMMANDO Scout E100 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, Energy Efficient Ethernet. 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. Hardware Specifications

Specification	Description
Flash	16KB
Operation Temperature	0℃ to 50℃
Storage Temperature	-40℃ to 70℃
Operating Humidity (relative, non-condensing)	10% to 90%
Storage Humidity (relative, non-condensing)	5% to 90%
Input Power Supply	5V DC, 1A (10/100Mbps models) 5-12V DC 1A (10/100/1000Mbps models)
Enclosure Type	Desktop
Weight	<0.5Kg
LED Indicator	Link/Act
EEE Compliant (IEEE 802.3az)	Comply with "EEE" Energy Efficient Ethernet

Table 2. Technical Specifications

Parameters	E100-5	E100-8	E100-5G	E100-8G
10/100/1000 Mbps BASE-T (Number of Ports)	10/100 (5)	10/100 (8)	10/100/1000 (5)	10/100/1000 (8)
Jumbo frame support	Yes	Yes	Yes	Yes
Forwarding modes	Store & Forward	Store & Forward	Store & Forward	Store & Forward

Acoustic Value	0 dB (A) Fan-less	0 dB (A) Fan-less	0 dB (A) Fan-less	0 dB (A) Fan-less
Switching Capacity	1Gbps	1.6Gbps	10 Gbps	16 Gbps
MAC Address Table	1K	1K	2K	4K

Table 3. Ports, LED, Fan & Power Adapter Specifications

Product Codes	Ports	LED's	FAN	Power Adapter rating (Volt, Amp)
E100-5	5	Activity	Fan-less	5V DC, 1A
E100-8	8	Activity	Fan-less	5V DC, 1A
E100-5G	5	Activity	Fan-less	5-12V DC, 1A
E100-8G	8	Activity	Fan-less	5-12V DC, 1A

Table 4. LED Indications

LED Indication	LED Status
Link/Act	Link/Act bi-color LED.
	OFF: Port disconnected or link fail.
	Green ON: 1000Mbps connected.
	Amber ON: 10/100Mbps connected.

Included in the bundle/box

All COMMANDO E100 Scout 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 E100 Series Switch
1x Adapter with cable
1x Installation Guide

Support and Warranty

COMMANDO Scout E100 Series Switches come with One-year replacement warranty and lifetime support.

- 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.
- The switches come with one-year warranty

Table 5. Support and Warranty

Warranty and Support	
Products covered	COMMANDO Scout E100 Series Unmanaged Switches.
Warranty duration	One Year RTB (Return To Base) replacement warranty.
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 6 lists ordering information for the COMMANDO Scout E100 Series Unmanaged Switches. To place an order, please contact your local reseller/distributor or COMMANDO Sales Representative at www.commandonetworks.com/rfq

Table 6. Ordering Information

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

Document History

Table 7.   Document History

Release	What's new	Date
Release 1	New Launch	January 4, 2021
Release 2	Model adjustment	June 8, 2022
Release 3	Information update	September 18, 2023