PoE+ Network Switch

ELECTRA-S-24



- 24 Ports 10/100/1000M PoE+
- 4 X gigabit SFP Combo uplink ports
- Backplane bandwidth 52 Gbps
- Rear Cable Entry
- 8K entry MAC address table
- Each PoE+ port output 30W max power
- IEEE802.3x Flow control
- 19'' size rack-mounted
- Surge protection for power and data ports
- Port & Power Lightning protection
- EMI standards complies with FCC, CE class A
- 2 year Warranty

Description

This 24 port Gigabit PoE+ switch with 4 Gigabit Combo uplink ports is designed using a Broadcom Chipset. It provides 24 x 10/100/1000M RJ45 Ports all 24 are PoE+ Ports. The PoE+ ports can automatically detect and supply power for the IEEE802.3af and IEEE802.3at compliant Powered Devices (PDs), like Voip Phone, PoE APs, IP Phones, IP cameras, etc.

Protection

The switch also benefits from Lightning protection on both the power input and Lan ports.

Application

The ELECTRA-S-24 is a 19'' 1U high rack frame device which is useful for the medium to large CCTV installation or as a floor switch in a building with multiple floors in a EDGE – CORE switch environment. Benefiting from 4 SFP ports this switch is ideal as a central switch connected to multiple switches using fibre cable.

POE+

24 PoE+ ports support both IEEE802.3af and IEEE802.3at Standard. Each port can output 30W max, or 30W per port if cameras are connected to all 24 ports. The ELECTRA-S-24 has a power overhead of 750 WATT.



R04EN1216

ONVIF
© 2015 Ernitec. All rights reserved
www.ernitec.com

Ernitec
Tempovej 41
2750 Ballerup
Denmark

Accessories

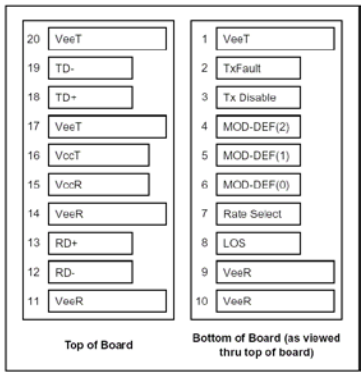
ELECTRA-S-SFP-C

1000 BASE-T Copper Small Form Pluggable (SFP) transceiver are based on the SFP Multi Source Agreement (MSA).They are compatible with the Gigabit Ethernet and 1000BASE-T standards as specified in IEEE Std 802.3 The 1000 BASE-T physical layer IC (PHY) can be accessed via I2C, allowing access to all PHY settings and features.

It supports a SERDES, does not have a link indication feature， and 1000BASE-X auto-negotiation should be disabled on host system

Part number: ELECTRA-S-SFP-C



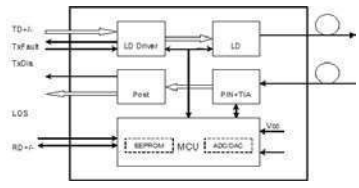


ELECTRA-S-SFP-S

Small Form Factor Pluggable (SFP) transceiver are compatible with the Small Form Factor Pluggable Multi-Sourcing Agreement (MSA). The transceiver consists of five sections: the LD driver, the limiting amplifier, the digital diagnostic monitor, the VCSEL laser and the PIN photo-detector .The module data link up to 550m in 50/125um multi mode fiber.

Part number: ELECTRA-S-SFP-S





Module block diagram

ELECTRA-S-SFP-L

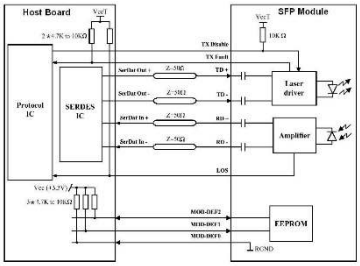
Small Form Factor Pluggable (SFP) transceiver are compatible with the Small Form Factor Pluggable Multi-Sourcing Agreement (MSA).

The transceiver consists of five sections: the LD driver, the limiting amplifier, the digital diagnostic monitor, the 1310nm FP laser and the PIN photo-detector.

The module data link up to 10KM in 9/125um single mode fiber.

Part number: ELECTRA-S-SFP-L





Recommend circuit schematic

R04EN1216

© 2015 Ernitec. All rights reserved
www.ernitec.com

Ernitec
Tempovej 41
2750 Ballerup
Denmark

Technical Specification ELECTRA-S-24

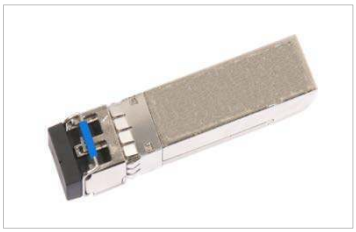
Switching	
Switch Type	Unmanaged PoE+ Switch with 24 PoE+ ports and 4 SPF ports
Fixed Ports	24 X 10/100/1000Base-TX ports 4 X 1000M SFP combo ports
PoE Ports	24 X 10/100/1000Base-TX ports.
Uplink Port	4 X 1000M SFP combo ports*
PoE Standard	IEEE802.3af, IEEE802.3at, per port 15.4W and 30W(MAX),
Power	
LED Indicators	PWR, PoE, Link/Act LED.
Input voltage	100V～240V AC, 50/60Hz (for power adapter) 48VDC (for PoE switch)
Port PoE+ output	30W (MAX)
Power Supply	750W
Network	
Network Standard	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3x Flow Control, IEEE 802.3az
Network Media	10BASE-TX: UTP category 5, 5e cable (≤250m) 100BASE-TX: UTP category 5, 5e cable (≤150m) 1000BASE-TX: 148800pps/port Uplink Fiber Port: Single Fibre 20KM, Double Fiber: 20Km
Switching capacity	52G.
MAC address table	8K.
Traffic control	IEEE 802.3x full-duplex flow control.

Operating	
Operating temperature	0℃～40℃
Storage temperature	-10℃～70℃
Relative humidity	20%～85% (non-condensing)
Thermal methods	Built-in Noiseless FAN
General	
Package	ELECTRA-S-24 User Manual Power Cable Warranty Card
Pin assignment	V+ (RJ45 Pin 1, 2), V- (RJ45 Pin 3, 6)
Dimensions	19" 1U (482.60 mm x 44.45 mm)
Weight (Net)	Approx. 4500g
Warranty	2 years
Part number	ELECTRA-S-24

Optional accessories	
1000 BASE-T Copper (SFP) transceiver	ELECTRA-S-SFP-C
Single-mode SFP Transceiver	ELECTRA-S-SFP-L
Multi-mode SFP Transceiver	ELECTRA-S-SFP-S

DISTRBUTED BY

* If you use all 4 SFP uplink ports , RG45 ports 15, 16, 23 and 24 will be utilised by the 4 combo ports.



ELECTRA-S-SFP-L



ELECTRA-S-SFP-S



ELECTRA-S-SFP-C



ELECTRA-S-16

R04EN1216

We reserve the right to introduct product modifications without notice

Follow us on

© 2015 Ernitec. All rights reserved
www.ernitec.com

Ernitec
Tempovej 41
2750 Ballerup
Denmark