



RocketLinx® ACS7106

Part Number: 32130-9



INDUSTRY'S FIRST UL294/294B LISTED PoE SWITCH FOR ACCESS CONTROL

KEY FEATURES AND BENEFITS

- UL294/UL294B listed PoE Plus switch meets state and government requirements for Access Control installations
- Certified with Siemens and HID access control products
- Voltage boost technology: 12-24VDC input power for easy integration with fire/alarm/access control power systems
- Four 802.3af/802.3at compliant ports supporting up to 30W each
- 100W PoE total power budget guarantees operation of high power devices
- Mounting brackets designed to be used on perforated backplane for a Siemens access control cabinet (see image)
- Four 10/100BASE-TX Fast Ethernet ports and two Gigabit uplink ports for high bandwidth throughput
- Relay alarm supporting 24VDC at 1A for notification of Ethernet link and PoE power events
- PoE compliant 1-event and 2-event classification technology
- Over-current and over-voltage protection on PoE output ports
- Over-current protection at power input
- Rugged aluminum, small form factor housing installs easily within access control panels
- Extended temperature range of -40° to 55°C* for reliable operating in extreme environments
- Easy plug-and-play installation eliminates costs and cabling complexity typical with rack mounted or individual PoE midspans

PoE PLUS SWITCH

PRODUCT DESCRIPTION

The Control RocketLinx ACS7106 is a 6-port PoE Plus Ethernet switch purpose-built for delivering reliable power and data connections to access control and mobile surveillance applications. The ACS7106 switch features four 10/100BASE-TX PoE Plus ports for providing power and data to remote PDs (Powered Devices) such as access card readers and IP surveillance cameras, and two 10/100/1000BASE-TX uplink ports that assure maximum throughput for high bandwidth applications.

Housed in a durable aluminum enclosure and capable of operating in a wide environmental temperature range, the ACS7106 offers

features not found in typical IT-grade switches, including enhanced reliability and ruggedness, voltage boost circuitry for 12/24VDC power connections, an alarm notification relay, and compliance with the stringent UL294 safety certification required by many cities for access control equipment.

Together, these enhanced capabilities and design details deliver the reliability and configuration options that make the Control RocketLinx ACS7106 switch an ideal solution for integrating edge of network cameras and card readers into larger access control systems.

**For your solution to be fully UL294 compliant you need to use a UL294 Listed power supply. See back for recommendations.*



ROCKETLINX SPECIFICATIONS

HARDWARE

Ethernet Specification	10/100/1000BASE-TX
Enclosure	Extruded aluminum case
Installation Method	Panel mount
LED Indicators	PoE Status, Power, Port Link/Activity, Alarm
Dimensions (L x W x H)	7.4" x 5.35" x 1.4"
	18.8cm x 13.59cm x 3.56cm
Product Weight	1lb 4.1 oz 0.57 kg

TECHNOLOGY

Standards	IEEE 802.3af PoE IEEE 802.3at PoE Plus IEEE802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T
Flow Control	IEEE802.3x Flow Control and Back-Pressure

PERFORMANCE

Switch Technology	Store and forward switch technology
System Throughput	14,880pps for 10M Ethernet 148,800pps for 100M Ethernet 1,488,000pps for 1000M Ethernet
Number of MAC Address	1K
Packet Buffer Memory	512Kbits
Transfer Packet Size	64 - 1522 Bytes

PoE FEATURES

Standards	IEEE 802.3af Power over Ethernet (PoE) IEEE 802.3at Power over Ethernet Plus (PoE Plus)
Number of PoE Injector Ports	4
Maximum Output Power/PoE Port (Max.)	30W
Standard PoE Voltage Output @ACS7106 output ports	52-54.3VDC 100m * Cat5e @30W (24AWG) 47-49VDC 100m * Cat5e @30W (24AWG) 44.5-46VDC
*At the end of the specified distance	
Total PoE Power Budget	UL294 Installation, VIN = 24VDC (0 to 49°C) 90W UL294 Installation, VIN = 12VDC (0 to 49°C) 60W Non-UL294 Installation, VIN = 24VDC 100W @ Operating temperature range of -40°C to 50°C 90W @ Operating temperature range of 50°C to 55°C Non-UL294 Installation, VIN = 12VDC 60W @ operating temperature range of -40°C to 55°C
PSE Type	Alternative B
Overcurrent Protection	Yes
Over-voltage Protection	Yes

ETHERNET INTERFACE SPECIFICATIONS

Connector Type	RJ45
Number of Ports	4 x 10/100BASE-TX (PoE Plus ports) 2 x 10/100/1000BASE-TX (Uplink ports)
Auto-MD/MDI-X	Yes
Auto-Negotiation	Yes
PoE Port Pin Assignment	RX (1, 2) TX (3, 6) V+ (4, 5) V- (7, 8)
Link Distance	100 Meters
Port Alarm Relay	Failure notification for each port (enabled/disabled via DIP switch)
Relay Rating	1A Max. @ 24VDC

ELECTRICAL SPECIFICATIONS

Device	
DC input voltage	12-24VDC
Power consumption (without PD Load)	8.4-Watts
Current consumption (without PD Load)	700mA @ 12VDC 350mA @ 24VDC
Power consumption(with PD Load at Total PoE power budget)	4.5A @ 24VDC (UL294) 4.8A @ 24VDC 6.8A @ 12VDC
Input overcurrent protection	Yes
Power Connector	1
Power Connector Type	(1) 4-Pin Screw Terminal Block

ENVIRONMENTAL SPECIFICATIONS

Air Temperature	
System On	-40° to 55°C (*) 0° to 49°C (UL294) -40° to 85°C
System Off	
Operating Humidity (non-condensing)	0% to 95%
Storage Humidity (non-condensing)	0% to 95%

EXPORT INFORMATION

Packaged Shipping Weight	1 lb 11.7 oz 0.79 kg
Package Dimensions (L x W x H)	11.3" x 9.1" x 5.5" 28.7cm x 23.1cm x 13.97cm
UPC Code	7-56727-32130-9
Country of Origin	USA

For a complete UL294 Listed solution use one of these recommended UL294 approved power supplies:

Non-power limited output

- Securitron AQU128 – 12V @ 8A (96-watts)
- Alarmsaf CPS600C-UL/CS – 24V @ 6A (96-watts)
- Schlage PS906 – 24V @ 6A (144-watts)

Power-limited output

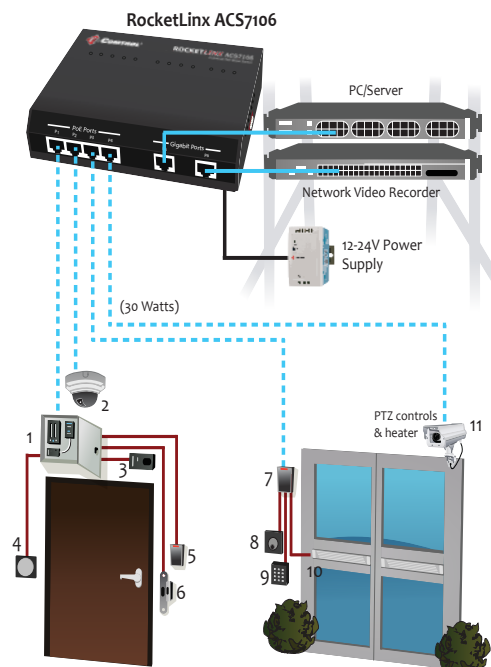
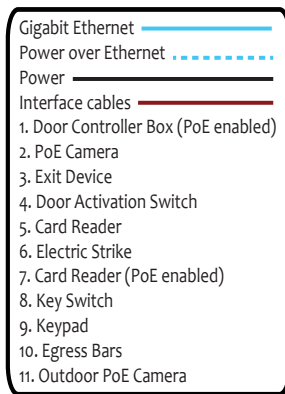
- Schlage PS904 – 24V @ 4A (96-watts)
- Altronix eFlow6N – 12/24VDC @ 6A (144-watts)

REGULATORY STANDARDS

Emissions	FCC Part 15 Subpart B Class A Limit Canadian EMC Requirements ICES-003 European Standard EN55022
Immunity	European Standard EN55024 IEC61000-4-2/EN61000-4-2: ESD IEC61000-4-3/EN61000-4-3: RF IEC61000-4-4/EN61000-4-4: Fast Transient/Burst IEC61000-4-5/EN61000-4-5: Surge IEC61000-4-6/EN61000-4-6: Conducted Disturbance IEC61000-4-8/EN61000-4-8: Magnetic Field IEC61000-4-11/EN61000-4-11: Voltage Dips and Voltage Variations
Safety	UL294B Standard for Access Control System units IEC 60950/EN60950 (LISTED) CSA C22.2 No. 60950/UL60950 Third Edition
Other	European Standard: RoHS compliant under CE
RE	CE, UL, FCC, RoHS, IEC, CSA, VDE, TÜV, LISTED, APPROVALS

RECOMMENDED PRODUCTS

- 32102-6 Power Supply 1100, 24V, 100W DIN rail
- 32101-9 Power Supply 1060, 24V, 60W DIN rail



* Note: The product is UL listed for operating temperature range of -40°C to 55°C. Control has qualified and tested the product to operate at temperatures up to 60°C. At 60°C, the product can provide a maximum PoE output of 90W with an input voltage of 24VDC and 60W with an input voltage of 12VDC. For installation requiring UL60950 listing, the product should only be operated between -40°C to 55°C. If the product is operated at 60°C, caution must be taken to not touch the hot surface of the product enclosure



Warranty Information

Control offers a 30-day satisfaction guarantee and 5-year limited warranty.

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