

KEYSCAN ACCESS CONTROL SYSTEMS FROM KEYSKAN INC.



Single Door
PoE Controller
CA150



Keyscan CA150 PoE Single Door Controller

Keyscan has always offered access control solutions that optimize system designs and maximize installation flexibility. At the heart of our organization is a vibrant team of engineers and product specialists that continually evaluate new and emerging technologies. Their aim is to select proven technologies that will enhance our product offering without compromising reliability and security.

Keyscan is pleased to introduce the CA150, a culmination of these efforts.

The innovative CA150 represents the latest addition to our already flexible line up of 2, 4 and 8 reader access control units and elevator access control units. When it comes to performance, capacities and overall capability, the CA150 is comparable in every way with our full range of access control units. From its total number of supported credentials to total number of supported timezones not a single detail was overlooked.

Exclusive to the CA150 is the fact that it's equipped to support power over ethernet (PoE). That single door at the far end of a building or those customers that have one critical door to be secured have never been so easily accommodated.

Don't be mistaken, this is no watered down, single door access control unit. Every aspect has been considered to make the CA150 one of the most powerful single door controllers on the market today. We wouldn't accept anything less, and nor would you. We invite you to learn more about this powerful new addition to the Keyscan family of access control units.

Benefits Keyscan CA150 PoE Single Door Controller

The CA150 provides unprecedented system design flexibility. While designed to support a single door, it is at its core, a fundamental part of our complete lineup of controllers and as such may be used in combination with any number of our access control units as a seamless part of a much larger system. From the simplest one door system to several hundred doors; from single sites to multiple-sites; from onsite managed access control to centrally managed access control; Keyscan offers a true end to end access control solution.

Remaining at the heart of every Keyscan system is the strength of Keyscan's Access Control Management software. The CA150 leverages this very same software platform, by doing so Keyscan's single door controller offers all the same features and capabilities that have been deployed at some of the largest access control installations around the globe. As such the CA150 is a product that will allow smaller sites to implement access control today with the confidence to expand their systems when the time is right.

Family of controllers

The CA150 is the perfect solution for Centrally Managed Access Control. With all of the on site features (network connectivity, power requirements, and door access) all contained in a single part, setting up enduser sites couldn't be easier. Reverse networking functionality is built into the on board Ethernet connection, and with the AES Encryption provides a secure connection from enduser sites to the central host. Whether opening a new site with one door, or adding an additional door to an existing site, the CA150 makes everything easier.



CA150 Features include:

Dual Processors

Dual processors ensure full panel operation even during system downloads

Flash Memory

Equipped with flash memory, the CA150 offers the same impressive characteristics found in the rest of our access control unit (ACU) lineup.

Network Connectivity

Equipped with a PoE ready TCP/IP module the CA150 is designed to reduce installation time, lengthy wiring runs and power requirements. With PoE the CA150 supplies power for the reader, door strike, request to exit (PIR) and any auxiliary device desired.

With DHCP supported, the CA150 is a true at the edge network appliance with an uncompromising access control feature set.

Two Powered Relays

The CA150 comes with two heavy duty, powered relays for door strike and auxiliary output control, each providing up to an impressive 500mA at 12VDC.

Four Supervised Inputs

The CA150 supports a request to exit (RTE), door contact, and 2 programmable auxiliary inputs providing you with uncompromising access control capabilities.

Two Reader Ports (In/Out)

The CA150 offers two (2) reader inputs. When the application calls for both, in and out reader validations the CA150 is ready when needed.

System VII

Managing the CA150 is provided through Keyscan's flagship access control management software, with all of its impressive features and capabilities.

CA150

Design Overview

A) Status LEDs

System status, communication and bit counter LEDs allow for instant system troubleshooting

B) Dual Processors

Dual processors ensure uninterrupted panel operation even during system downloads

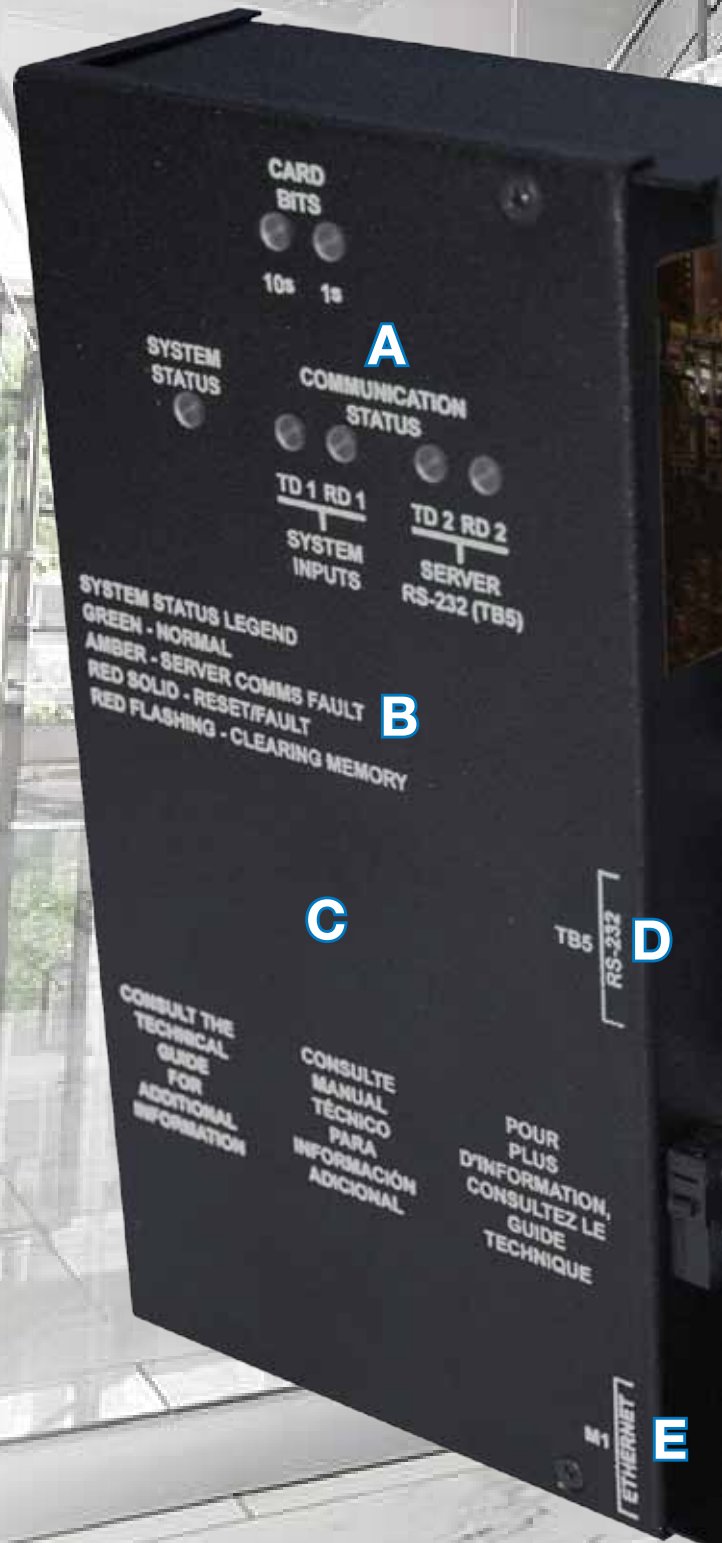
C) Flash memory

D) Tamper Switch

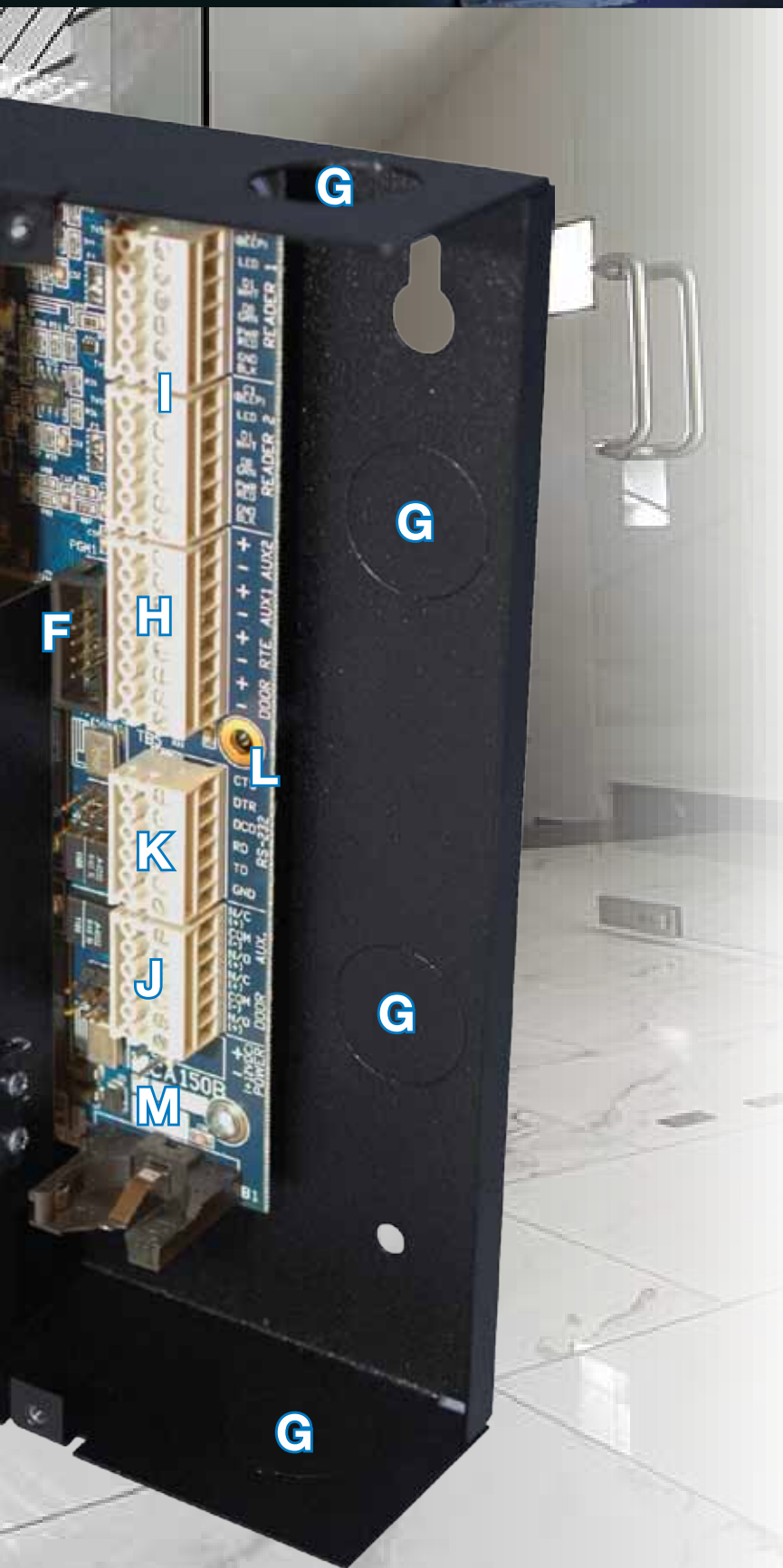
If the CA150 cover is removed for any reason the tamper switch will activate, triggering a Panel Tamper Alarm

E) Network Connectivity

Equipped with a PoE enabled Ethernet port (IEEE 802.3af) DHCP Supported Encrypted and non-Encrypted modes



The CA150 is PoE rated to a maximum of 8 Watts or 680mA @ 12VDC. All loads when in PoE supply mode must not exceed the combined maximum current load of 680mA. All other stated current draw maximums apply when in DC supply mode. The CA150 is designed for easy installation with enclosure dimensions measuring 7" x 7.5" x 1.75".



F) System Jumpers

Readily accessible system jumpers allow for convenient system configuration

G) Wiring knockouts

Multiple wiring knockouts maximize installation flexibility and cabling concealment

H) Four Supervised Inputs

Inputs allow for request to exit (RTE), door contact input and two auxiliary inputs

I) Two Reader Ports

Provides IN and OUT reader capabilities
Readers powered in PoE or DC supply mode up to 12VDC @500mA per port

J) Two Heavy Duty Relays

1 Strike Relay and 1 Auxiliary Relay are provided
Selectable powered or non-powered modes
Powered mode provides up to 12VDC @ 500mA per relay
Non-powered provides dry contact rated for 4 amp, 30VDC; 6 amp, 24VDC

K) Removable Terminal Blocks

L) RS232 Connectivity

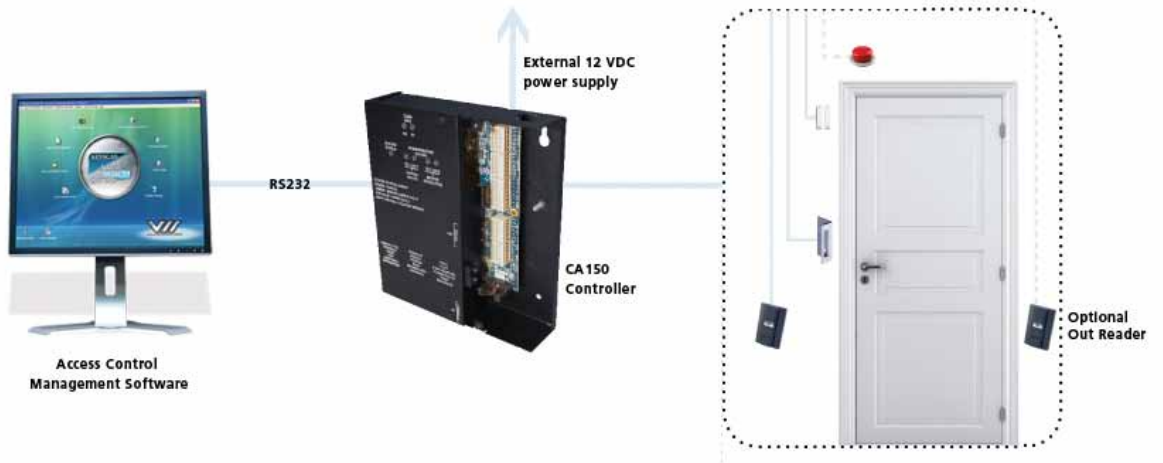
An RS232 communication link is provided for panel to computer communication

M) DC Input/Output

When PoE is not available a 12VDC input option is provided. Also available is a 12VDC output to supply any local auxiliary device such as a PIR or glass-break sensor rated for 12VDC up to 250mA

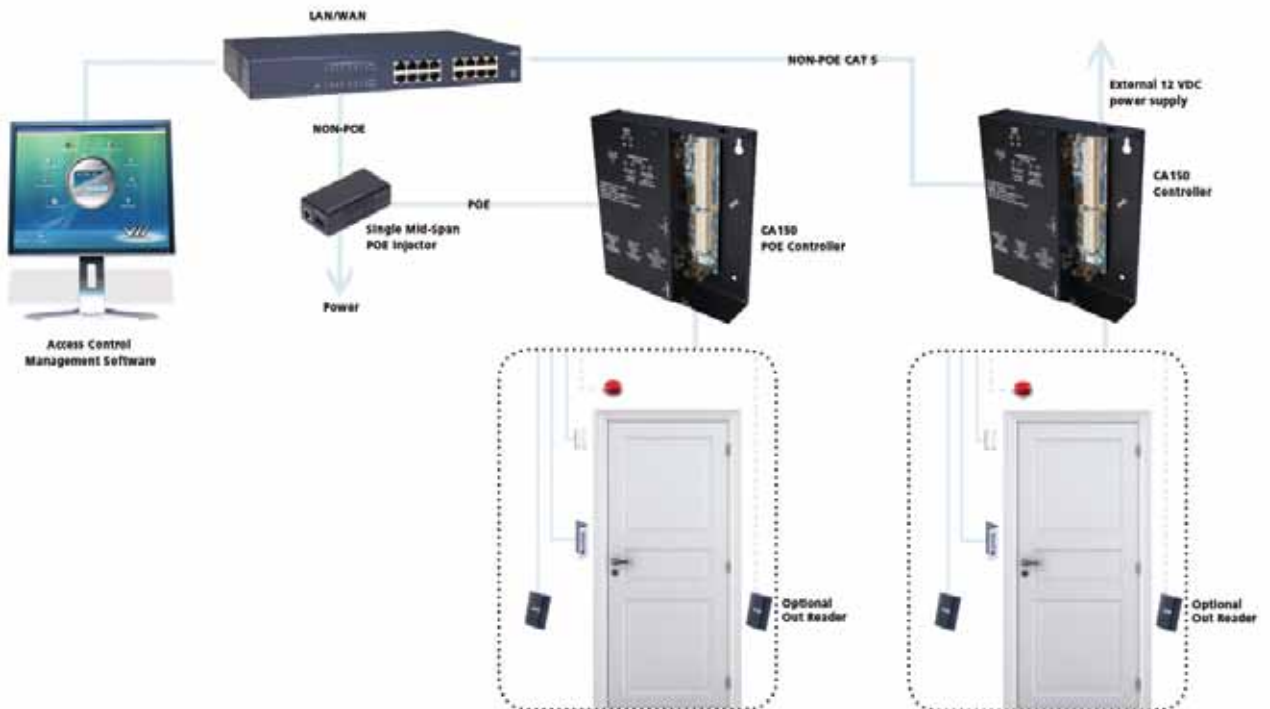
CA150 – Simple System Application

When network connectivity is not available or not required the RS232 communication port provides a convenient way to configure and download cardholders to the CA150 when needed. The CA150 does not require a permanent connection to a PC or database.



CA150 – Standard LAN/WAN Application

The CA150 supports either PoE or direct 12VDC supplies, providing maximum system design flexibility based on what infrastructure is available at any given site. For those sites that may not have PoE capable infrastructure a single or multi-port Midspan PoE injector may be implemented to leverage the freedom the CA150s PoE adapter provides.



CA150 – Mixed ACU Application

The CA150 may be used in combination with any of Keyscan’s family of access control units. The CA150 seamlessly integrates or expands any Keyscan system without any security concerns, providing maximum system design flexibility.



Managed Access Control (CMAC) Application

For those that require a centrally managed access control (CMAC) offering the CA150 is ready. Equipped with an encrypted PoE capable TCP/IP Ethernet adapter, it is as close to a “plug and play” access control offering as you will find in the industry.



OVERVIEW OF KEYSKAN ACCESS CONTROL UNITS

		PoE Single Door Control System	Keyscan Multiple Reader Control Systems				Keyscan Elevator Control Systems	
								
		CA150	CA250	CA4500	CA8500	EC1500	EC2500	
Access Control Unit	Doors Supported	1 door	2 doors	4 doors	8 doors	1 cab up to 40 floors	2 cabs / up to 16 floors	
	Reader Ports	2 (In/Out)	2	4	8	1	2	
	Multi -ACU Support	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	
	System Status LEDs	Yes	Yes	Yes	Yes	Yes	Yes	
	Dual Processors	Yes	Yes	Yes	Yes	Yes	Yes	
	Flash Memory	Yes	Yes	Yes	Yes	Yes	Yes	
	Power Fail Output	NA	Yes	Yes	Yes	NA	NA	
	Floor Monitor Inputs (Supervised)	NA	NA	NA	NA	Yes	Yes	
Inputs	Request to Exit (RTE) Inputs (Supervised)	1	2	4	8	NA	NA	
	Door Contact Inputs	1	2	4	8	NA	NA	
	Auxiliary Inputs (Supervised)	2	8	16	16	NA	NA	
	I/O Input Expansion	NA	NA	64 (banks of 16)	64 (banks of 16)	NA	NA	
Outputs	Auxiliary Output Relays	1	2	4	8	NA	NA	
	Expansion Auxiliary Output Relays	NA	NA	8	8	NA	NA	
	I/O Outputs	NA	NA	64 (banks of 16)	64 (banks of 16)	NA	NA	
	Door Output Relays	1	2	4	8	NA	NA	
Capacity	No. of Cardholders	32,000	32,000	32,000	32,000	32,000	32,000	
	Transaction File Buffer	6000	6000	6000	6000	6000	6000	
	Time Zones	256	256	256	256	256	256	
	Time Schedules	512	512	512	512	512	512	
	Group Levels	511	511	511	511	511	511	
	Holiday Dates	64	64	64	64	64	64	
Connectivity	Ethernet Ready	Equipped	Optional	Optional	Optional	Optional	Optional	
	POE - Power over Ethernet (IEEE 802.3af)	Equipped	NA	NA	NA	NA	NA	
	CMAC Reverse IP	Equipped	Optional	Optional	Optional	Optional	Optional	
	Serial Communication	Yes (single panel)	Yes	Yes	Yes	Yes	Yes	
	Dial Up Communication (Optional)	NA	Yes	Yes	Yes	Yes	Yes	

Keyscan's family of Access Control Units are inter-dependable and scalable to support any sized application.

KEYSCAN INC.

901 Burns Street East, Whitby, ON Canada L1N 6A6

Phone: +1 905.430.7226 Fax: +1 905.430.7275

Toll Free: +1 888-KEYSCAN (539.7226)

Web Site: www.keyscaan.ca

KEY 2011-09

