SOFTWARE HOUSE
From Tyco Security Products

January 2018

New Product Announcement

Enhanced IP-ACM v2 Two-Reader Ethernet Door Module

IP-ACM v2 is the latest version of the IP-ACM Two-Reader Ethernet Door Module, enhancing the original IP-ACM by providing a secondary Ethernet port to connect an additional network device such as a biometric reader on the same LAN segment. The maximum lock output amperage has been increased to 0.75A per lock, allowing the IP-ACM to directly power a wider range of locking devices, plus, the output connector size has increased, for easier installation. In addition, IP-ACM v2 now supports 801.1X and TLS 1.2 secure network protocols for added protection against the threat of cyberattacks.

Like its predecessor, the IP-ACM v2 enables a pure IP edge-based access control architecture. IP-ACM acts as the interface between the local field wiring/devices and the IP network, communicating to iSTAR Ultra and iSTAR Ultra SE door controller GCM or iSTAR Ultra LT for all access decisions.

IP-ACM utilizes a customer's network infrastructure to reduce installation costs, requiring just a single Cat 5/6 cable to each door. IP-ACM also offers compelling benefits in a hybrid solution where IP and traditional wired doors are required. Embedded lock power is provided through PoE (Power over Ethernet) for further installation savings (primary port only).

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New Features/Benefits at a Glance:

Secondary port connects additional network devices
IP-ACM Ethernet Door Module comes with a secondary port that can be used with additional network devices such as a biometric reader for use in environments that need multi-factor authentication such as a pharmacy, a bank vault or other high sensitive areas.

Maximum lock output amperage increased to 0.75 per lock
The maximum lock output amperage has been increased to 0.75 per lock which makes it convenient to directly power the locking devices – even locks that require up to 0.75A. There is no need to install a separate power supply to feed power to the locks, saving cost and labor on a project.

Support for network protocols for added protection against the threat of cyber attacks
IT-savvy customers are demanding more secure ways to deploy and manage their security technology that are not vulnerable to hacking especially in the wake of so many cyber security threats. Leveraging a company's network infrastructure for access control makes a lot of sense from a security perspective. IP-ACM v2 is a highly secure, flexible and future-proof Ethernet door module using AES 256 network encryption to control up to two doors. It supports 801.1X and TLS 1.2 secure network protocols for added protection against the threat of cyberattacks.

New Board with Primary and Secondary Ports

Existing Key Features/Benefits:

Saves cabling costs compared to traditional wiring
The centralized approach of traditional wiring can be costly as you must take into consideration cabling costs, installation hours and the need for power supplies. With IP-ACM, your costs decrease dramatically as you are able to leverage the existing network infrastructure, reducing the need for expensive cabling back to a server room since all wiring is close to the door.

Variety of power options
With IP-ACM, you get a variety of power options for greater flexibility. Each IP-ACM can be powered by a local 12 or 24V DC power source, or power can be provided through PoE or PoE Plus (up to 30W) to each door (primary port only), further reducing wiring costs. To provide compatibility with the greatest number of PoE Plus network switches, IP-ACM supports Link Layer Discovery Protocol – Media Endpoint Discovery (LLDP-MED) protocol for negotiation of power requirements when using PoE Plus.

Each IP-ACM can handle one or two doors with two readers (Wiegand/RM/OSDP secure channel), four supervised inputs, two wet/dry relay outputs, tamper input and removable connectors. IP-ACM is expandable to include up to two I8 inputs modules and two R8 output modules.

GigE Ethernet connectivity in a low-cost door module
To ensure compatibility with the latest network switches and routers, IP-ACM features a fast 10/100/GigE full duplex LAN port.

Distributed architecture offers the ultimate in scalability
Each iSTAR Ultra and iSTAR Ultra SE supports up to 32 readers; so, if each IP-ACM is connected to one reader, up to 32 IP-ACM devices may be connected to a GCM. If each IP-ACM has two readers, then 16 IP-ACMs may be connected to the GCM. Each iSTAR Ultra LT supports up to 8 readers.

Configurable offline mode for reliable continuity
IP-ACM is one of the industry's only IP door modules that include a configurable offline mode. Offline mode allows users to select "No Access", "Access based on the last buffered 1,000 unique cards" and/or "Access for specific personnel group" if network communication is lost. Authorized cardholders can still gain entry even in a network outage. All card admits and rejects are buffered and uploaded when the IP-ACM is back

online. IP-ACM will send an alarm on any loss or latency of network communication, allowing you to proactively manage the situation. Note that offline mode currently works only when one door is configured on the IP-ACM

Flexible enclosure options

IP-ACM is available in either a traditional hinged metal enclosure, with lock and tamper, or, in an ABS plastic enclosure that features front and rear tamper indication. It is also available as a standalone board, to be mounted in an integrator's custom enclosure. For finished spaces, the aesthetically pleasing ABS plastic enclosure is ideal for mounting on the secure side of a door, blending into its environment, and reducing service costs compared to units that are mounted in dropped ceilings.

Embedded Lock Power Management for increased efficiency and lower costs

Embedded lock power management, including powered (wet) lock outputs with individual resettable fused protection, eliminates the need for additional power supplies and fused power distribution boards normally required for traditional installations. Duplicate lock output wiring is eliminated, and the entire system becomes much easier to maintain and troubleshoot. In the end, the installation is more streamlined using less panel space and fewer interconnected wiring and devices. Each output can supply up to 0.75A at 12 or 24V DC.

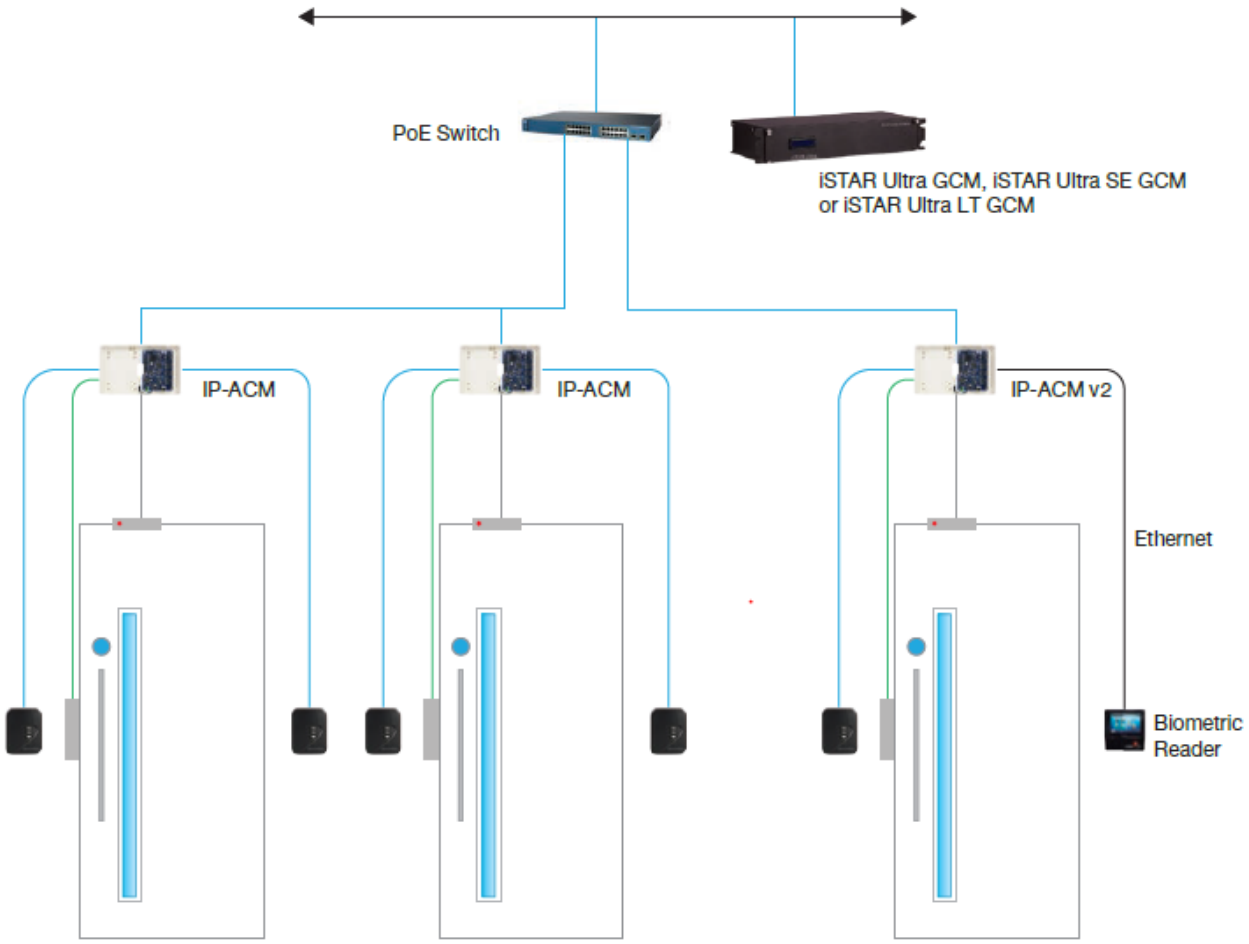
Easy to install and service

IP-ACM is easy to quick and easy to install in a secure area, normally above the ceiling or available surface area using a surface mount with a minimum of tools. This will save the end users on installation costs as time is drastically cut as minimal wiring is necessary. Once connected to the iSTAR panel, IP-ACM is easy to set up with static IP or DHCP. The IP-ACM does not require batteries of any sort, further reducing service costs.

Platform for TST-100 Touchscreen Terminal and future technology adoption

The IP-ACM connects to our new TST-100 Touchscreen Terminal via a fast full duplex connection, enabling the TST-100's vibrant, icon-driven graphics and providing an exciting and intuitive user experience at the door. The full duplex connection is what will also enable the TST-100's speaker and microphone, as support for voice functions is phased in through a TST-100 firmware update.

Leverage Your Network Infrastructure



You can use the IP-ACM on the same primary network as iSTAR Ultra, iSTAR Ultra SE, or iSTAR Ultra LT. Or, use iSTAR Ultra or iSTAR Ultra SE's second network port to establish a separate dedicated subnet for IP-ACMs. In this highly secure and reliable layout, the iSTAR Configuration Utility or a similar tool can be used to set static IP addresses for each IP-ACM.

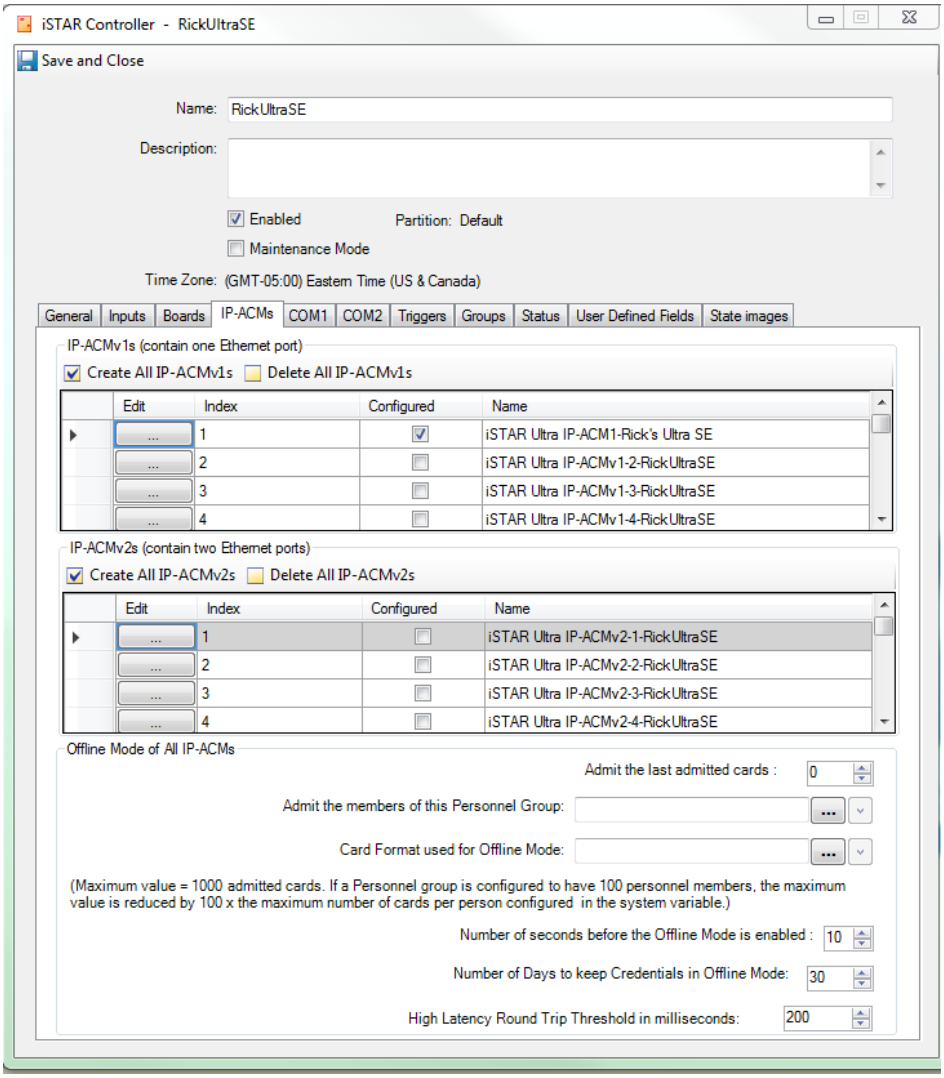
Frequently Asked Questions

Q. What version of C•CURE 9000 do I need in order to use the IP-ACM v2?

A. IP-ACM v2 is compatible with C•CURE 9000 v2.60 SP1 and above – and, you need 6.5.4 iSTAR Ultra firmware.

Q. How do I program IP-ACM v2, compared to v1? Is there a difference?

A. Yes, there is a difference. Although the I/O is identical, you will need to create the IP-ACMs a little differently in v2 than in v1. On the IP-ACM tab in the iSTAR Ultra editor, you will use the lower section of the editor to configure IP-ACM v2, while the top section is for IP-ACM v1.



Q. Can IP-ACM v1 and IP-ACM v2 be used on the same iSTAR Ultra?

A. Yes, although it is not recommended, since any new features that the IP-ACM v2 will support may not be available, if there are IP-ACM v1s on the same controller.

Q. Do I need to reprogram the IP-ACM if I swap out a v1 for a v2?

A. Yes, although in CCURE 9000 v2.70 we are including a built-in feature to allow you to convert a v1 into a v2 unit, without having to shut down the iSTAR driver service on the server.

Ordering Information

Model Number	Description	MSRP USD	MSRP CAD	Cat
IP-ACM2A-MB	IP-ACM v2, board only	$775	$820	B
IP-ACM2A-EM	IP-ACM v2 in metal enclosure	$865	$915	B
IP-ACM2A-EP	IP-ACM v2 in plastic enclosure	$865	$915	B
IP-ACM2-CAN	IP-ACM metal enclosure without board	$90	$95	D
IP-ACM2-CAN-P	IP-ACM plastic enclosure without board	$90	$95	D
IP-ACM2A-MB-5PK	IP-ACM v2, board only five pack box	$3,475	$3,685	B

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