

SPECIFICATION



MAC416M/MAC432M 16 RELAY OUTPUT INTERFACE



MAC416M/MAC432M: 16 Relay Output Interface

Description

The MAC416M & MAC432M lift control package comprises a MAC416 16-channel relay interfaces, the package supports up to 32 lift levels and can be expanded to manage up to 64 floors by looping additional boards via an RS485 bus.

Engineered for reliability, the system features relays that are Normally Closed (NC) by default and safely transition to Normally Open (NO) upon power-up. When paired with our card access readers, the MAC416M & MAC432M ensures precise security by only triggering the designated relay for authorized floors, maintaining strict access for users based on their individual permissions.

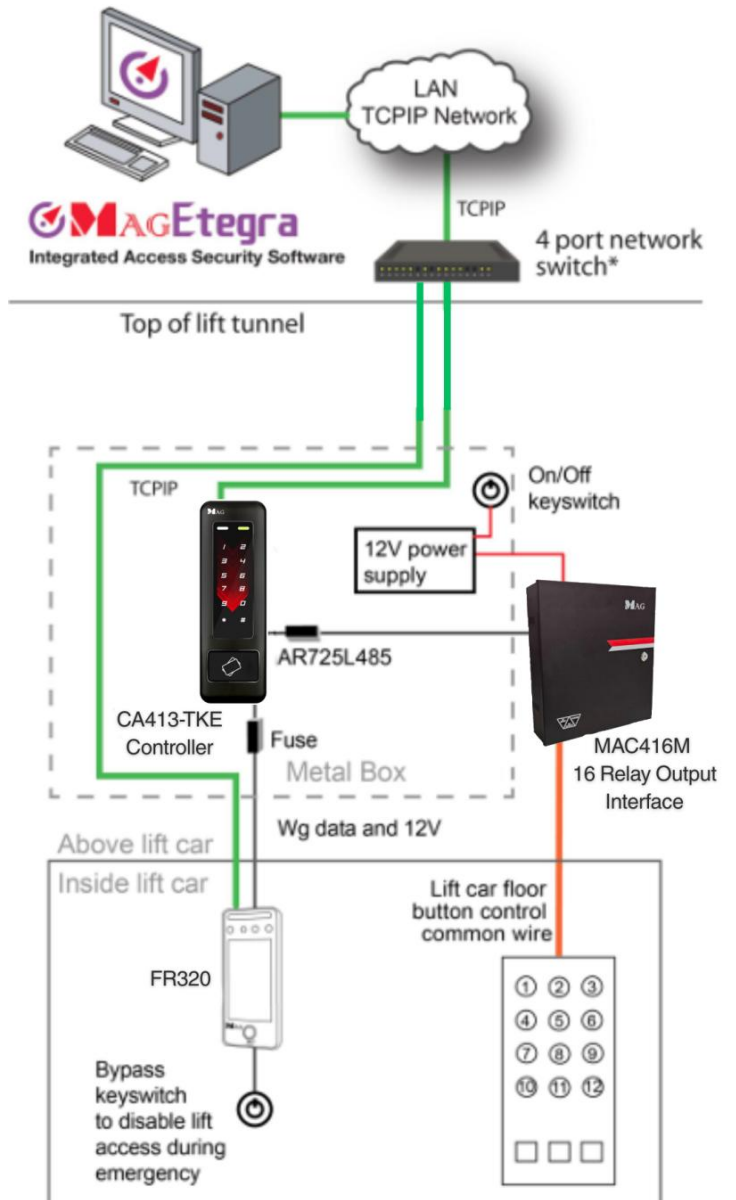
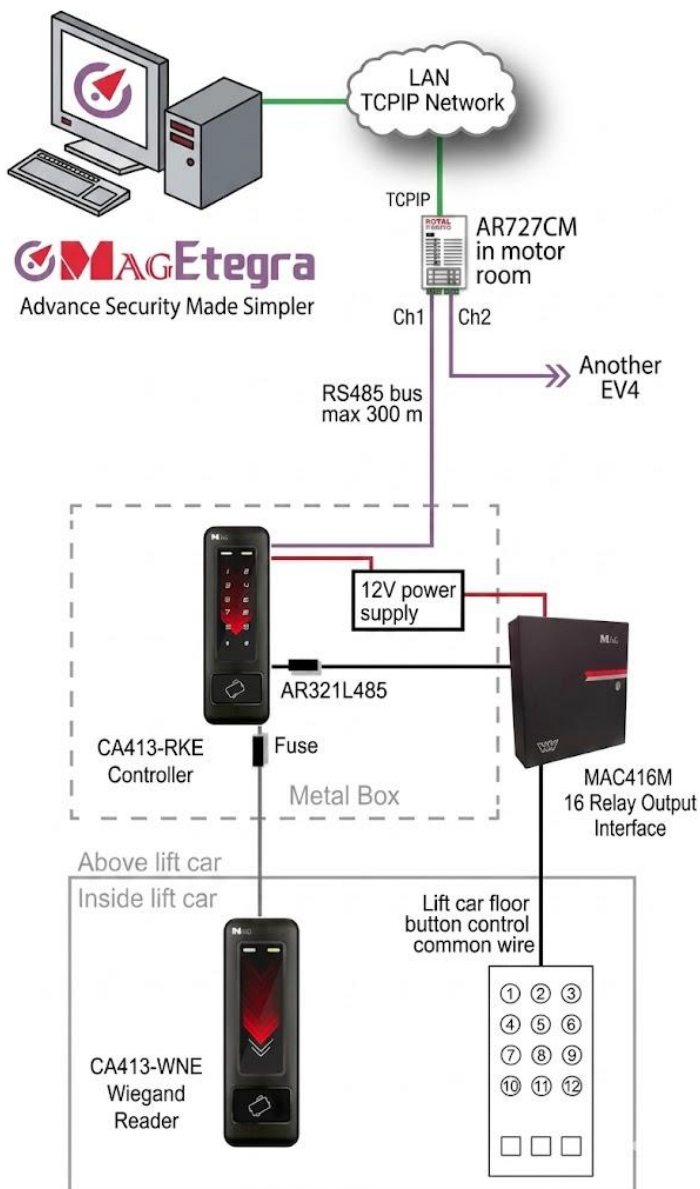
Features

1. **Scalable Expansion:** Multiple MAC416M modules can be looped together via an RS485 bus to scale beyond 16 floors, catering to multi-story high-rise buildings.
2. **Dedicated Hardware Outputs:** Equipped with 16 independent relay outputs to interface seamlessly with physical elevator control panels or custom floor-selection buttons.
3. **Reliable Serial Communication:** Features a robust RS485 communication interface ensuring long-distance stability and secure data exchange within the access network.
4. **Flexible System Integration:** Integrates directly with MAG Lift Access Controllers to execute authorized floor-clearance commands effortlessly.
5. **Software Integration:** Harmoniously pairs with MAG Lift Access Controllers & MagEtegra ME-ACS software, allowing administrators to efficiently map out user floor permissions, configure time zones, and generate detailed elevator access logs.
6. **Role-Based Access Control:** Supports granular authorization matrices through the software to customize who (user profile), when (time zone), and where (floor group) a passenger can travel.
7. **Secure Hardware Enclosure:** Comes optimized for field installation inside a heavy-duty black metal box integrated with an internal power supply module to prevent tampering.

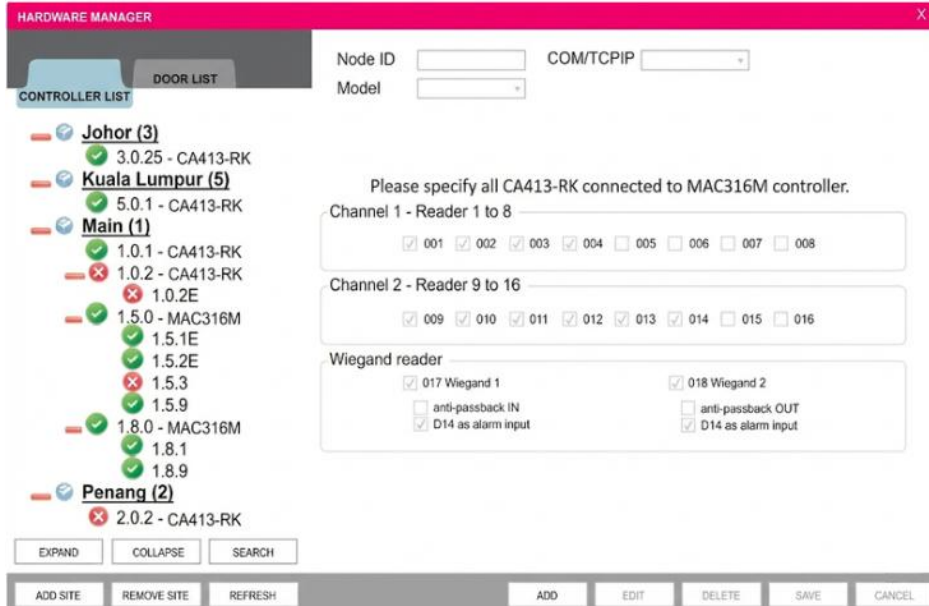
Technical Parameters

Specifications	
Communication Interface	RS485
Baud Rate	9600 bps (N, 8, 1)
Output Type	16 Form C Relay Outputs (N.O./N.C. selectable via jumper)
Relay Rating	1A / 30VAC, 1A / 30VDC
Input Optical Isolation	5kV
Power Supply	9-24 VDC
Power Consumption	<8W
Surge Suppression	400W peak power dissipation; < 1 picosecond clamping time (theoretical)
Protection	PTC Protector (Power & RS485); Bi-directional avalanche breakdown device
Operating Temperature	-20°C ~ +70°C
Dimensions (PCB)	100(H) x 147(W) x 20(D) mm
Net Weight (PCB)	Approx. 100g

Connection Architecture



What other features can you achieve when integrated with MagEtegra Access Control Software (ME-ACS)?



HARDWARE MANAGER

CONTROLLER LIST

- Johor (3)**
 - 3.0.25 - CA413-RK
- Kuala Lumpur (5)**
 - 5.0.1 - CA413-RK
 - 1.0.2 - CA413-RK
 - 1.0.2E
 - 1.5.0 - MAC316M
 - 1.5.1E
 - 1.5.2E
 - 1.5.3
 - 1.5.9
 - 1.8.0 - MAC316M
 - 1.8.1
 - 1.8.9
- Penang (2)**
 - 2.0.2 - CA413-RK

Node ID COM/TCPIP

Model

Please specify all CA413-RK connected to MAC316M controller.

Channel 1 - Reader 1 to 8

☒ 001 ☒ 002 ☒ 003 ☒ 004 ☐ 005 ☐ 006 ☐ 007 ☐ 008

Channel 2 - Reader 9 to 16

☒ 009 ☒ 010 ☒ 011 ☒ 012 ☒ 013 ☒ 014 ☐ 015 ☐ 016

Wiegand reader

☒ 017 Wiegand 1 ☒ 018 Wiegand 2

☐ anti-passback IN ☐ anti-passback OUT

☒ D14 as alarm input ☒ D14 as alarm input

EXPAND COLLAPSE SEARCH

ADD SITE REMOVE SITE REFRESH

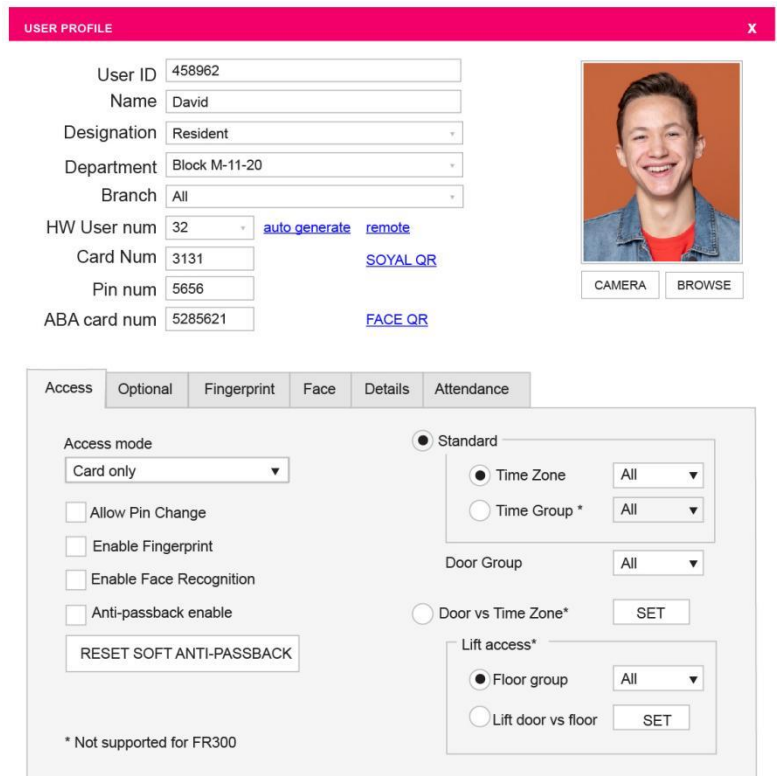
ADD EDIT DELETE SAVE CANCEL

Centralized Hardware Management

Hardware Manager centralizes the configuration and monitoring of your security hardware in one intuitive interface. Administrators can easily manage controllers, readers, and sites, adjust device settings, and bring devices online or offline for maintenance. Clear status visibility ensures your security infrastructure remains organized, reliable, and secure at all times.

Central Account & Permission Management

User Profile simplifies identity and access management by allowing administrators to enroll users, assign cards, PINs, and biometric credentials, and define access permissions with ease. Flexible controls for doors, time zones, and lift access ensure the right people have the right access at the right time, all from a single, intuitive interface.



USER PROFILE

User ID 458962

Name David

Designation Resident

Department Block M-11-20

Branch All

HW User num 32 [auto generate](#) [remote](#)

Card Num 3131 [SOYAL QR](#)

Pin num 5656

ABA card num 5285621 [FACE QR](#)



[CAMERA](#) [BROWSE](#)

Access Optional Fingerprint Face Details Attendance

Access mode Card only

☐ Allow Pin Change

☐ Enable Fingerprint

☐ Enable Face Recognition

☐ Anti-passback enable

☒ Standard

☒ Time Zone All

☐ Time Group * All

Door Group All

☐ Door vs Time Zone*

Lift access*

☒ Floor group All

☐ Lift door vs floor

* Not supported for FR300

ME-ACS MagClient

System Configuration User Management Access Control Time Attendance Monitoring Reporting Housekeeping Help About

LOGOUT ADMIN

Current Event Log Alarm Event Log E-Map Monitoring

Date	Time	User ID	Name	Branch	Mobile	Site Code	Card Code	Door	Event
17/01/2025	12:29:48							1.0.2-Main Door	Reader Offline
02/12/2015	21:41	JA00856	Sarah	KL	012563282	00218	33222	1.0.1-Entrance	Normal access by face
02/12/2018	21:42	JA54456	Amir	Selangor	016565585	00218	56445	1.0.1-Entrance	Normal access by card only
03/12/2018	21:43	JA97832	Bedul	Johor	019255555	00218	78787	1.0.1-Entrance	Normal access by card only
03/12/2018	22:40	JA95123	Siti	Johor	013288878	00218	64545	1.0.1-Entrance	Normal access by card only
04/12/2018	22:44	JA02253	Mary	Selangor	016214785	00217	53453	1.0.1-Entrance	Normal access by face
04/12/2018	23:40	JA54456	Jackson	Perak	019365484	00218	30166	1.0.1-Entrance	Normal access by card only
04/12/2018	16:41	JA97852	Sarah	KL	013789995	00111	53453	1.0.1-Entrance	Normal access by face
05/12/2018	15:30	JA93123	Amir	Selangor	012385595	00218	78787	1.0.1-Entrance	Normal access by face
05/12/2018	20:20	JA02233	Bedul	Selangor	019587475	00212	53453	1.0.1-Entrance	Normal access by card only
05/12/2018	22:43	JA00028	Siti	KL	013898555	00218	53453	1.0.1-Entrance	Normal access by card only
06/12/2018	21:40	JA00856	Mary	Johor	018154885	00445	78787	1.0.1-Entrance	Normal access by face
06/12/2018	15:40	JA54456	Jackson	Perak	019878524	00334	53453	1.0.1-Entrance	Normal access by face
06/12/2018	21:40	JA97852	Sarah	KL	012566498	00132	78787	1.0.1-Entrance	Normal access by card only
06/12/2018	13:40	JA02253	Amir	Selangor	014598548	00218	53453	1.0.1-Entrance	Normal access by face
06/12/2018	21:40	JA97852	Sarah	Selangor	014597889	00132	78787	1.0.1-Entrance	Normal access by face
06/12/2018	13:40	JA02253	Amir	Perak	012549859	00218	53453	1.0.1-Entrance	Normal access by face

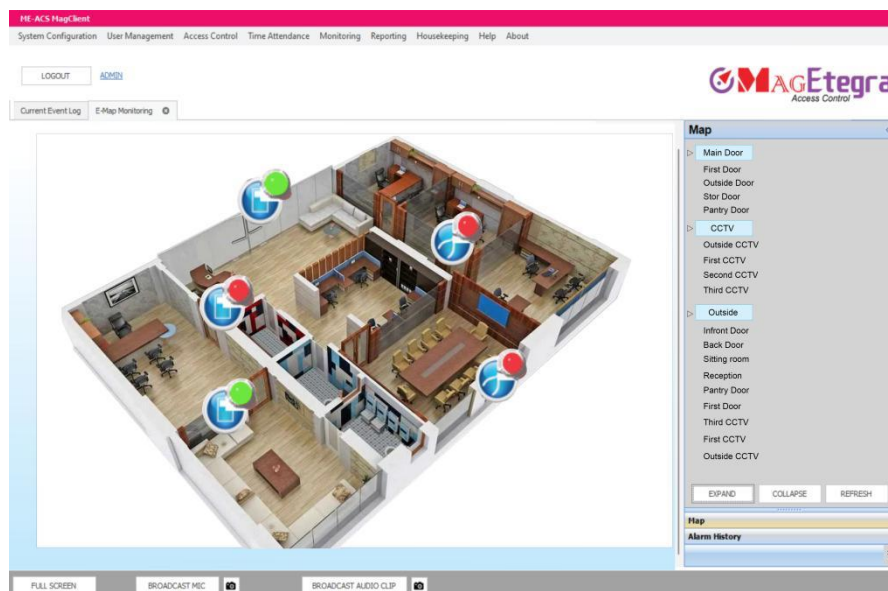
FILTER RESET FULL SCREEN EXPORT

Real Time Security Event Log

The Event Log provides a clear, chronological record of all access activities and system events across your site. With powerful filtering and export options, administrators can quickly trace user actions, investigate incidents, and generate reports for audits or review, ensuring full visibility and accountability at all times.

Interactive E-Map

The Interactive E-Map provides a real-time visual overview of doors, devices, and cameras on a digital floor plan. Alarms are instantly highlighted on the map with direct access to live CCTV feeds, enabling rapid verification, faster response, and improved situational awareness without relying on text-based logs.



***Product performances is based on testing in a controlled environment. Your result may vary due to several external and environment factors.**

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