

# KRYPTO

HIGH SECURITY SOLUTION

Say "NO" to card cloning with ATRIUM's unique KRYPTO high security solution. Eliminate complex and arduous programming using the ATRIUM A22K controller, CDVI DESFire EV2 credentials & K1 readers. System-wide AES encryption stops card cloning and provides end-to-end security. Whether you remote in from the internet or connect on your network you can be sure KRYPTO has you covered.

## EXCLUSIVELY WITH THE KRYPTO A22K CONTROLLER

### AFPLAN

#### ATRIUM Floor Plan Manager License

- View door status on a floor plan in real time from any web browser (MAC or PC).
- Activate all door options in real time (locked, unlocked, access granted, etc.)
- Easy to configure (click & drag)
- Supports .jpg or .png file (1Mb max.)
- One Floor Plan Manager per site



# ATRIUM

ACCESS CONTROL

## Krypto High Security Kits

### A22K1

#### 2-Door High Security Reader Kit

- 3-1 x A22K controller
- 4-2 x K1 high security readers
- 5-1 x pack of 25 TAG-EV2 DESFire credentials



### A22K1DS

#### 2-Door High Security Reader and Door Strike Kit

- 3-1 x A22K controller
- 4-2 x K1 high security readers
- 5-2 x door strikes (ROFU 2400KIT)
- 6-1 x pack of 25 TAG-EV2 DESFire credentials



# ATRIUM

ACCESS CONTROL

## KRYPTO

HIGH SECURITY SOLUTION

## Instant High Security Out of the Box

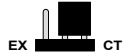


## A22K

2-DOOR / 4-READER FULLY ENCRYPTED IP CONTROLLER

### Module Type Jumper Settings

**Controller**  
(Default)



Module will act as a controller (IP connection)

**Expander**



Module will act as an expander (RS-485 connection)

### Lock Output Jumper Settings

**Lock Output= 0V**  
(Default)



Toggles to 12 VDC during unlock time (Typical use: door strike)

**Lock Output= 12V**



Toggles to 0 VDC during unlock time (Typical use: maglock)



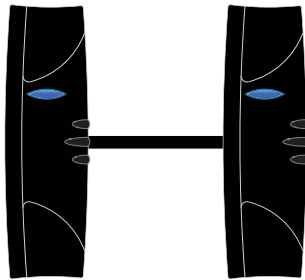
### IP Connection

Use for A22K set as "Controller" ONLY.

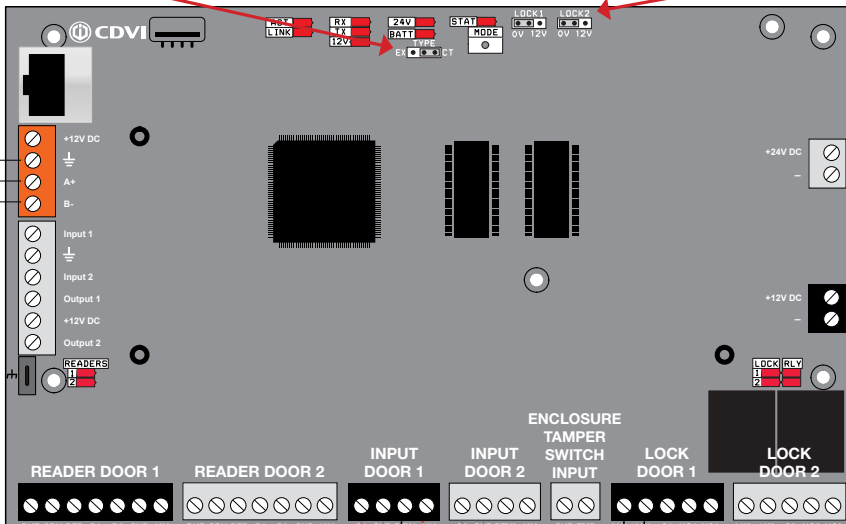


**Extra Inputs & Outputs**  
2 inputs (4 using zone doubling) and 2 outputs

**K1**  
High Security Card Reader



Entry Reader (Blue wire NOT connected)  
Exit Reader (Blue wire connected to GND)



Pre-assembled Universal Plug-in Power Supply (120/240 V)



Optional PoE+ module available (A22KPOE)

**Recommended Battery:**

12 VDC, 7 Ah  
(UL/ULC: YUASA #NP7-12 or Europe: CDVI B7AH)



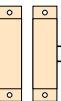
Intertek  
4006885

UL 294



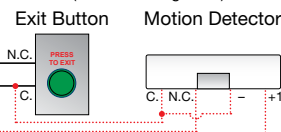
The diagram shows various device connection for Door # 1.

**Door Contact**  
(Default Setting: N.C.)



**REX**

(Default Setting: N.C.)



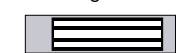
### Lock Outputs

Each lock output provides 750 mA @ 12 VDC

Door strike



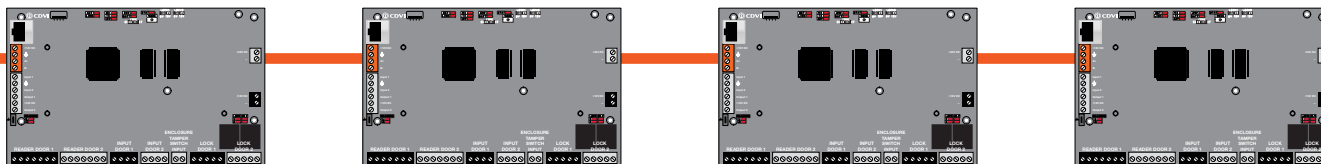
Maglock



### A22K set as "Expanders"

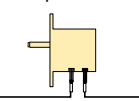
Connect up to four A22K set as "Expanders" on the RS485 bus, max. distance 4000 ft (1220 m)

Do NOT connect A22K set as "Expander" to IP port.

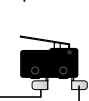


### Enclosure Tamper Switch

Wall Tamper Switch



Door Tamper Switch



# A22K NETWORK CONNECTIVITY

## 500 DOOR SYSTEM

(100 doors connected IP + 400 doors connected RS485)

### IP CONNECTIVITY

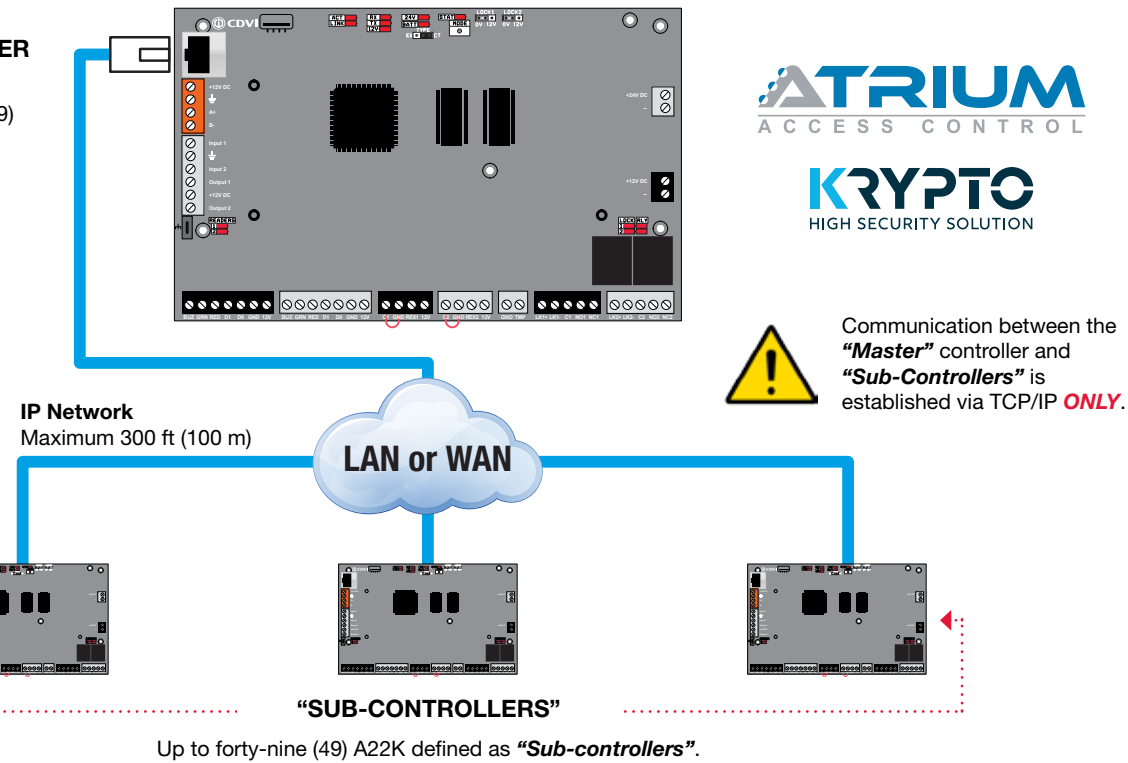
Out of the box the A22K is ready for IP connectivity, fifty (50) A22K per account.

If you have more than one A22K controller per account, one must be set as the "Master" controller to manage the others. These forty-nine (49) others are defined as "Sub-Controllers".

#### "MASTER" CONTROLLER

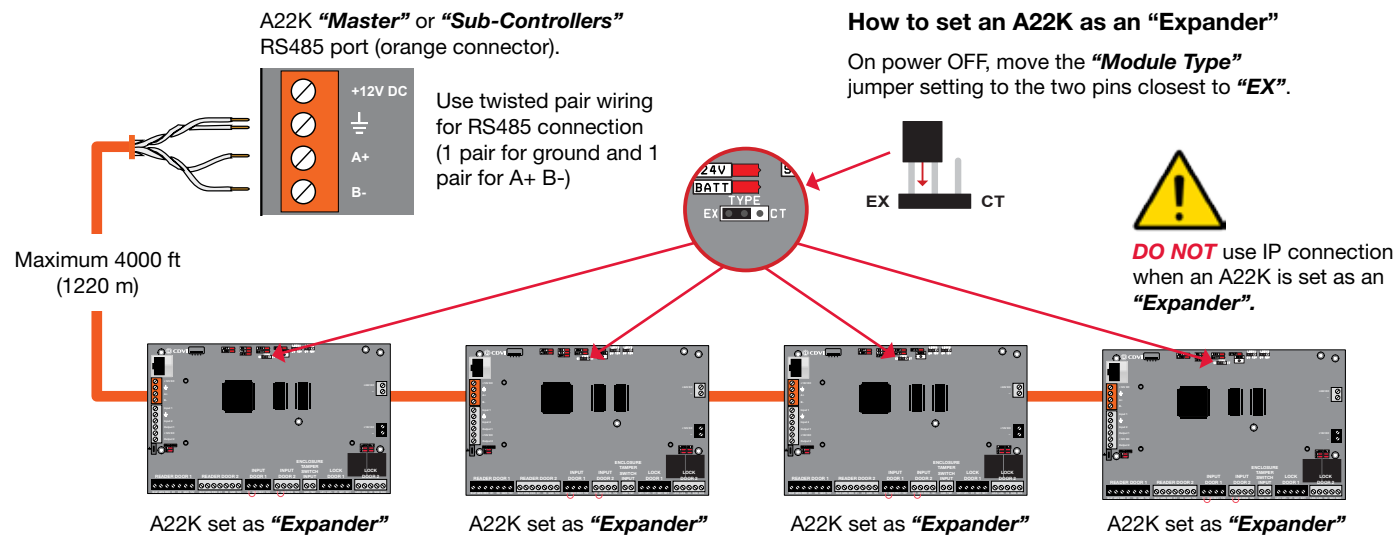
The "Master" controller manages up to forty-nine (49) "Sub-Controllers". (100 doors fully IP)

**AES256**  
ENCRYPTION

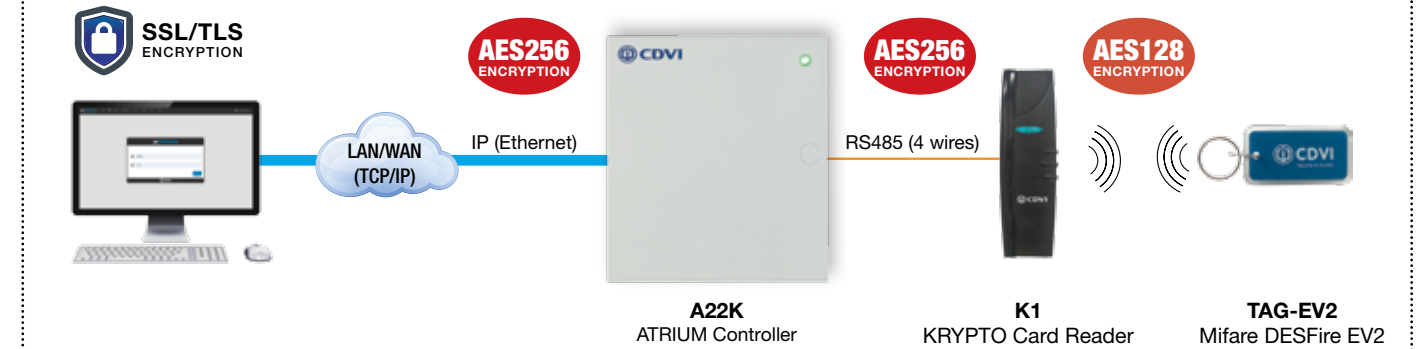


### RS485 CONNECTIVITY

An A22K can be set as an "Expander". Up to four (4) can be connected to the RS485 network (orange connector) of the "Master" and each "Sub-Controllers".



# SYSTEM OVERVIEW



Supports any combination of fifty A22K, A22KEC and/or ADH10 controllers for a maximum of 500 doors

