

Suprema Webinar 2020

CoreStation 4 Door Access Control Kit

Speaker

Jeff Donahou

North America Technical Support Lead Manager

Date: July 15, 2020

Time: 09:00 (EST)

Date: July 16, 2020

Time: 15:00 (EST)

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The screenshot shows the Suprema Technical Support website. At the top, there's a navigation bar with links: Home, Solutions, Forums, Tickets. Below this is a search bar with the text "How can we help you today?" and a "SEARCH" button. The search results show a link to "Suprema Webinar : Technical Support". Below the link, it says "Created by: Kate Yu" and "Modified on: Sun, Apr 19, 2020 at 9:25 PM". The main content area shows the title "Suprema Webinar_01 : All about CoreStation" and a description: "CoreStation is Suprema's Intelligent Biometric Controller. It's 4 door access controller. It matches all types of credentials such as Card, Biometrics and Mobile credential. It is compatible with all standard readers. Because of easy scalability of the system, it's suitable for SMB to Enterprise system. It is also easy to setup and configure through Webserver and application." Below this, it says "For more details about the webinar, please refer the below description, and download the attached presentation file. (The recorded Video File: Click [here](#).)" At the bottom, it lists "What we covered in this webinar:" followed by "Knowing CoreStation and selling points" and "Learning how to make Centralized System with CoreStation".

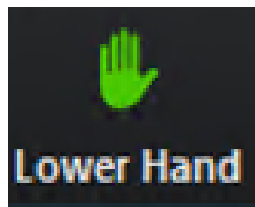
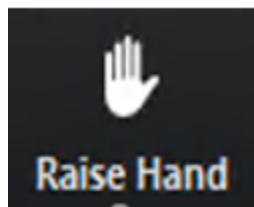
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Notification: Question Session

- ✓ During the presentation, we will have QA session to make the webinar interactive.
- ✓ You can leave your questions through the **QA box**.
- ✓ Or you can raise your hand from the menu bar, and you will be available to **unmute your microphone** once the host confirms your sign from Attendee's list.
- ✓ ***When you speak through a microphone**, please **say your name** and **ask question**. We will answer one by one, so please kindly wait for your turn.*

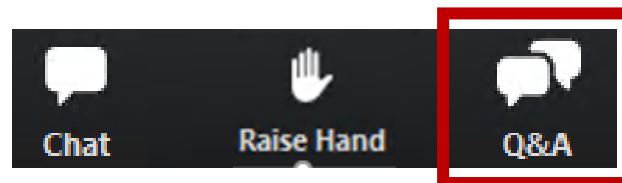
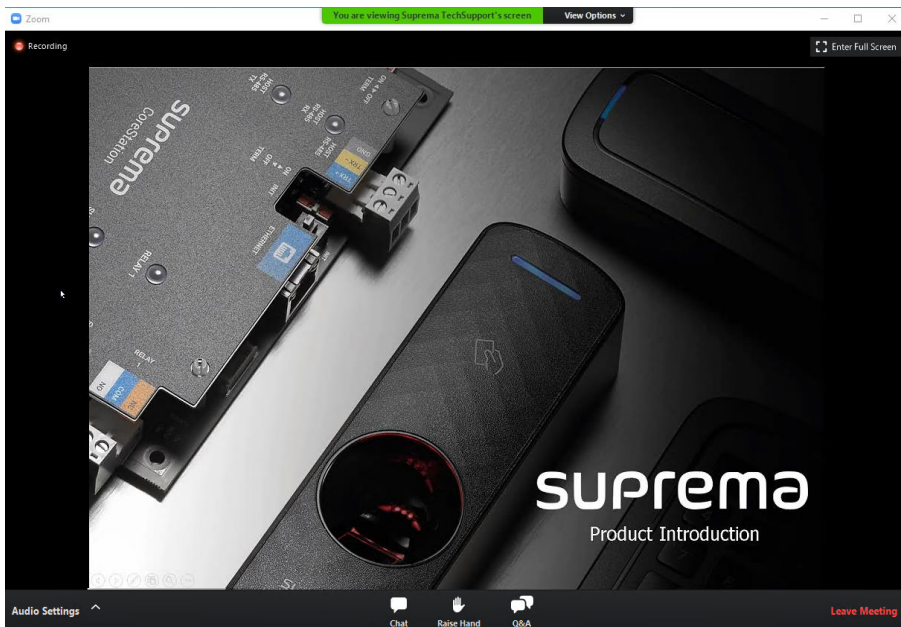


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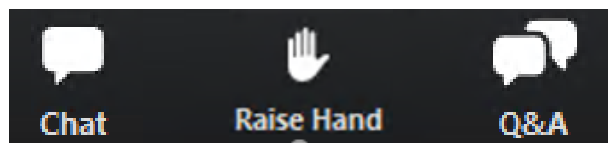
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1) [Q&A] Box for leaving your question

- ✓ During the webinar, you can leave your questions to **QA box anytime.** Suprema agents in the panels will answer in real time.



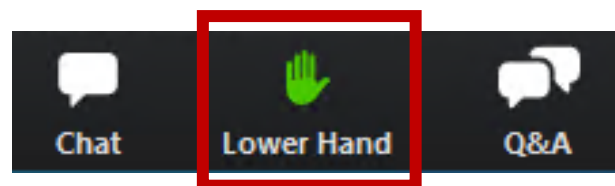
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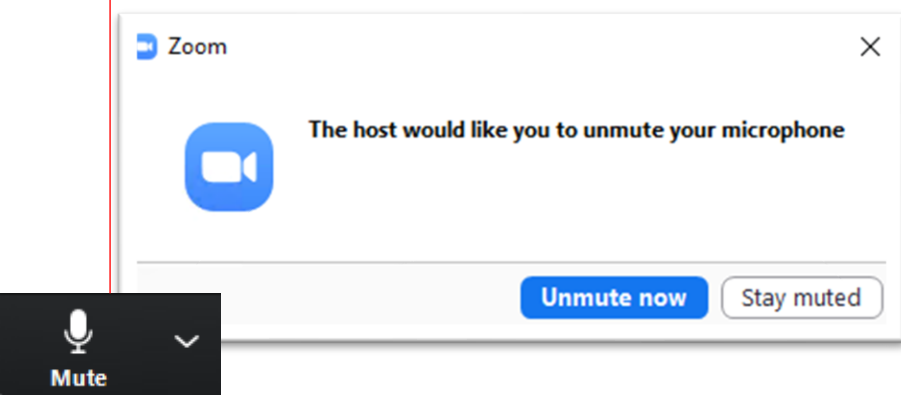
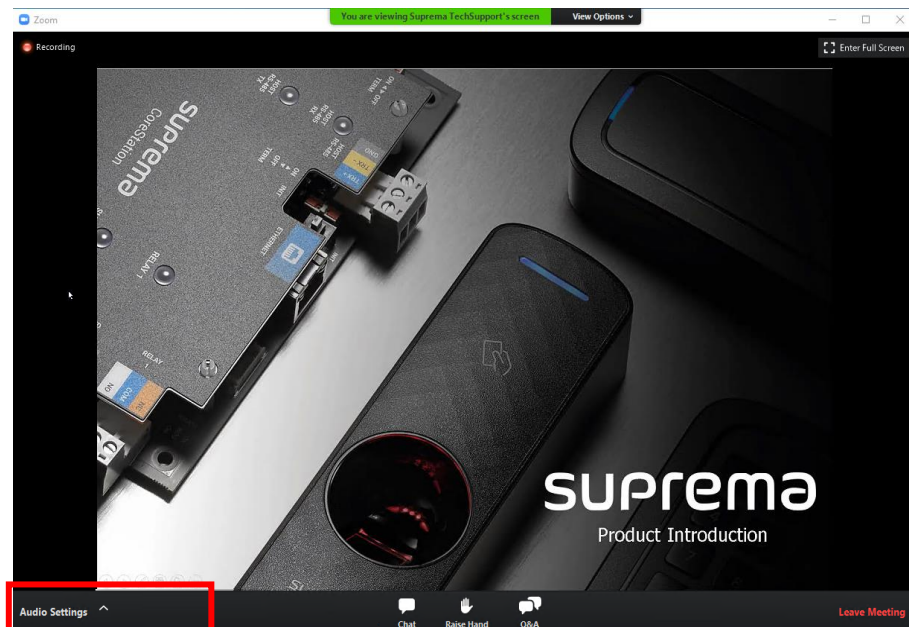
2) [Raise Hand] for a Question Session



Please click on [Raise Hand] on the menu bar if you have any questions. The color will turn to Green.

Host will allow you to unmute your microphone and you can then unmute your microphone.

But you can also click [Raise Hand] during the webinar anytime if you have any questions.



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2. CoreStation Kit Readers
3. Kit Packaging
4. Implementations
5. CoreStation System – Configuration by RS485
6. Wire and configuration with BioStar 2 (Video)

Q&A

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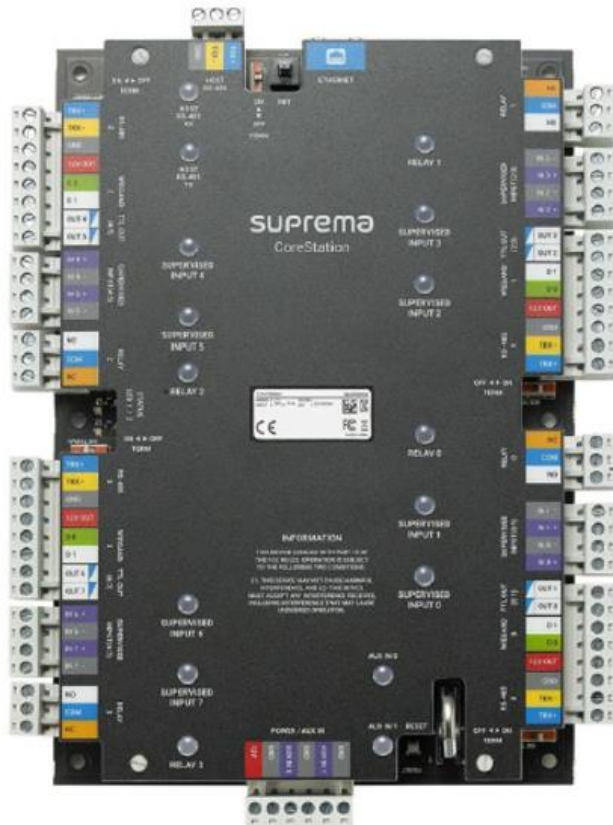
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1. What is the CoreStation (CS-40)?

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What is the CoreStation (CS-40)?



Suprema's Intelligent Biometric Controller

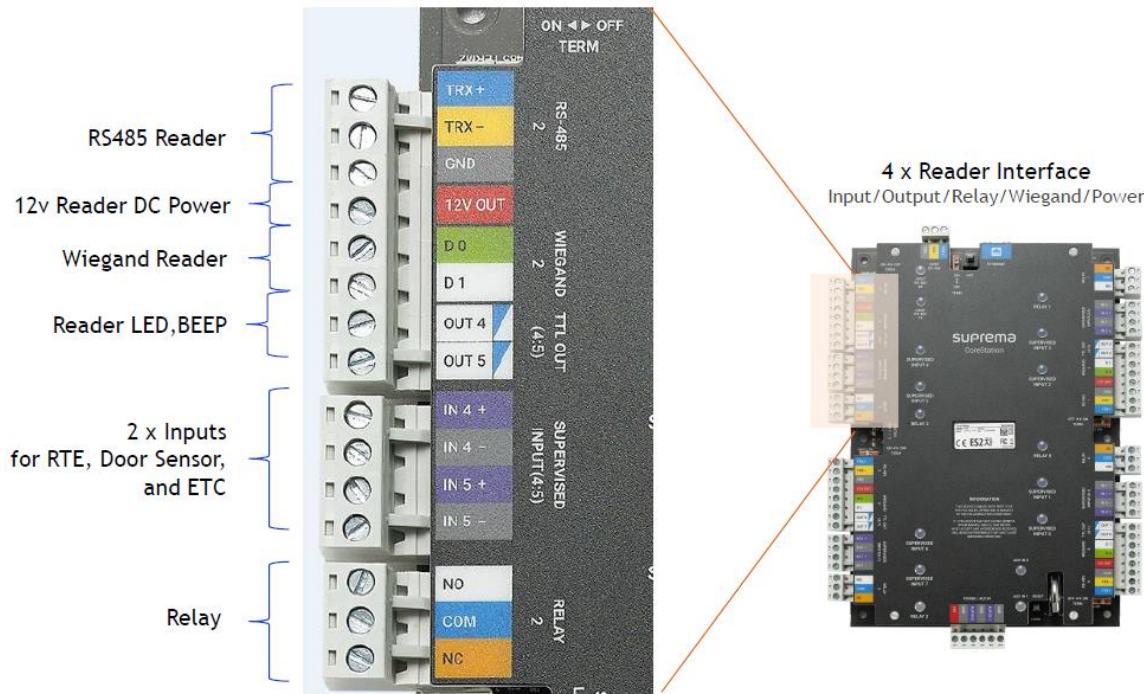
- 4 Door Access Controller
- Matching all type of credentials (Card, Biometrics, Mobile)
- Compatible with all standard readers
- Stores up to 500,000 users
- Suitable for SMB to Enterprise System(Max. 132 Door)
- Easy setup and configuration via webserver and App.

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What is CoreStation (CS-40)?

CoreStation supports four on-board reader ports for both Wiegand and RS485 interface along with relays, inputs, and reader power-out.



CoreStation Specs	
CPU	1.4 GHz Octa Core
POWER /AUX IN	DC 12V, 3A
Memory	8 GB Flash + 1 GB RAM
Max. Users	500,000 (1:1) and 100,000 (1:N)
Max. Templates	1,000,000 (1:1) and 200,000 (1:N)*
Max. Text Logs	5,000,000 (text)
Serial Comm. Protocol	OSDP V2
Ethernet	10/100 Mbps and Auto MDI/MDI-X
RS-485	5ch
Wiegand	4ch Input
Relay	4 Relays
TTL Input	8ch (Supervised input selectable)
TTL Output	8ch
AUX Input	2ch (AC power fail and tamper)
Certification	CE, FCC, KC, RoHS, WEEE, REACH, UL (Under Testing Currently)

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2. CoreStation Kit Readers



	BER2	XPD2(Mullion)	XPD2(Gang Box)	XPD2(Gang Box)
RF Option	125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire/EV1, FeliCa	125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire/EV1, FeliCa	125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire/EV1, FeliCa	125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire/EV1, FeliCa
Suprema Mobile Access	NFC	NFC/BLE	NFC/BLE	NFC/BLE
Template	SUPREMA	-	-	-
Sensor Type	Optical Sensor (OP6)	-	-	-
IP rating	-	IP67	IP67	IP67
IK rating	-	IK08	IK08	IK08
RS-485	1ch (OSDP V2)	1ch (OSDP V2)	1ch (OSDP V2)	1ch (OSDP V2)
Wiegand	-	1ch output	1ch output	1ch output
Dimension (WxHxDmm)	50 x 164 x 37.5	48 x 144.7 x 27	80 x 130 x 25	80 x 130 x 25
Certificates	CE, FCC, KC, RoHS, REACH, WEEE	CE, FCC, KC, RoHS, REACH, WEEE, SIG	CE, FCC, KC, RoHS, REACH, WEEE, SIG	CE, FCC, KC, RoHS, REACH, WEEE, SIG

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3. Kit Packaging



Scalability

- Flexible architecture allows the most cost-effective solution -> **Suprema 4 DOOR ACCESS CONTROL PACKAGE for SMB Market**



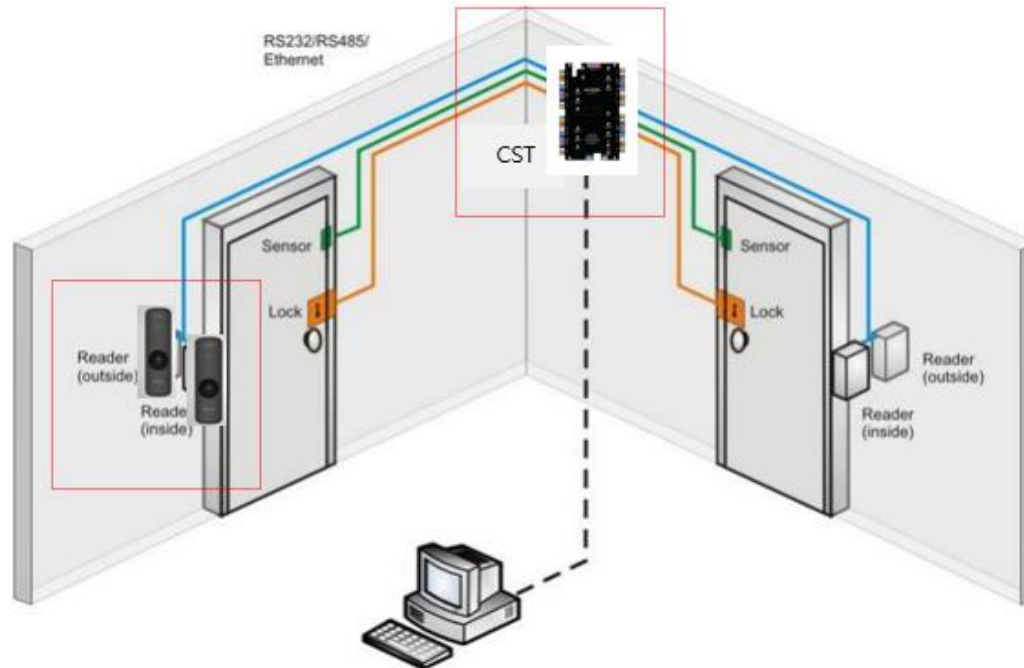
	Component
CS40-KIT-1	CS40(1ea) / XPD2-MDB(4ea)
CS40-KIT-2	CS40(1ea) / XPD2-GDB(4ea)
CS40-KIT-3	CS40(1ea) / XPD2-GKDB(4ea)
CS40-KIT-4	CS40(1ea) / BER2-OD(4ea)

4. CoreStation Implementations

CoreStation System Implementations

Example

Change without additional wiring

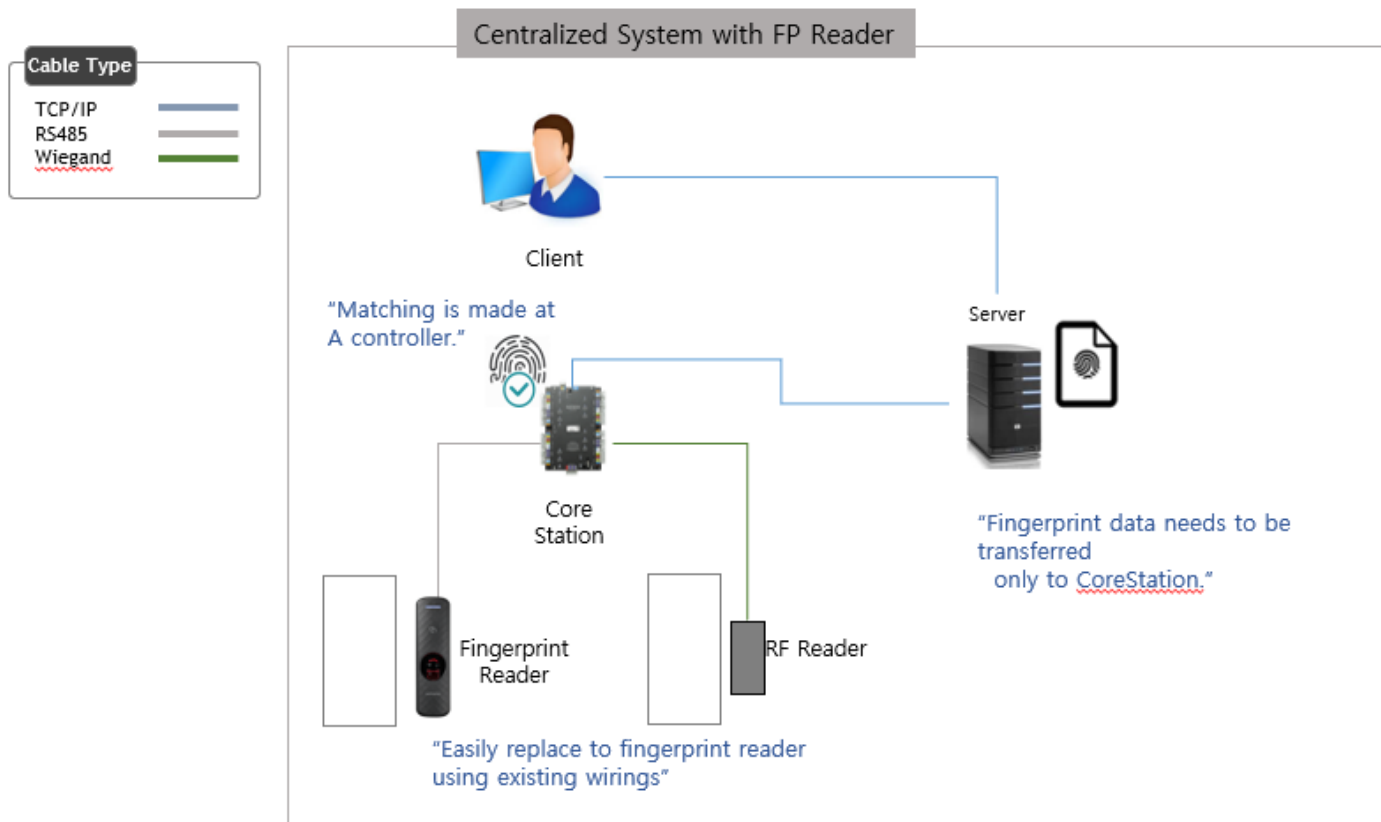


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CoreStation System Implementations

CoreStation (Biometric Matcher)



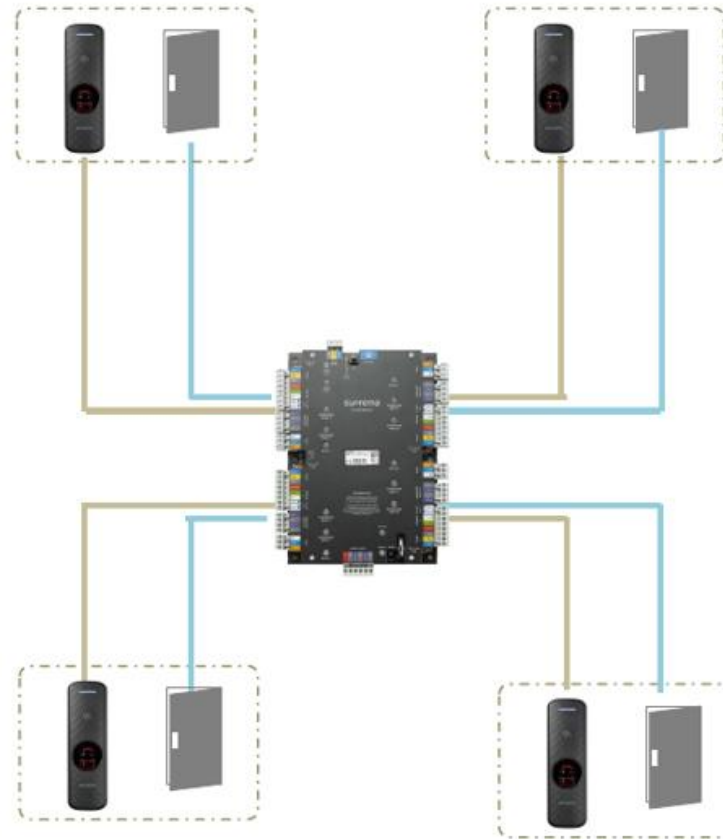
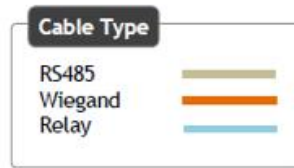
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5. CoreStation Configuration by RS485

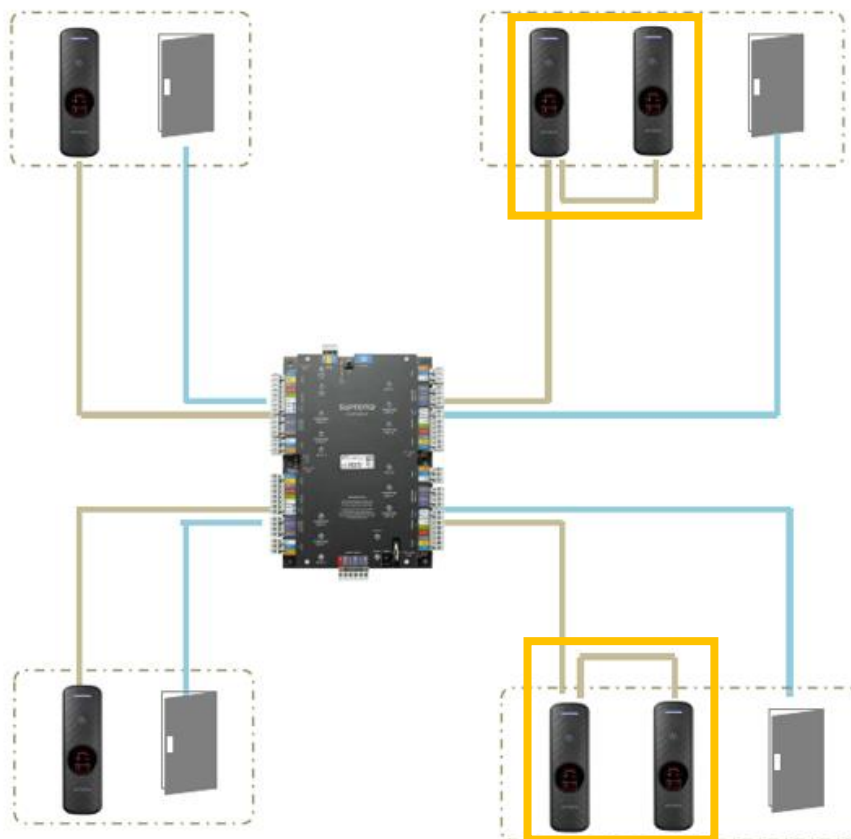
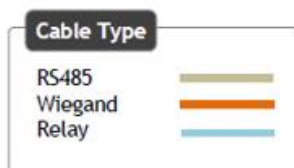
CoreStation System – Configuration by RS485

✓ 4 Door Configuration



CoreStation System – Configuration by RS485

✓ 4 Door Configuration



*When using RS485 daisy chain, reader power-out from CoreStation may not be strong enough. So it's recommended to use an additional power connection.

CoreStation System – Configuration by RS485

✓ Caution

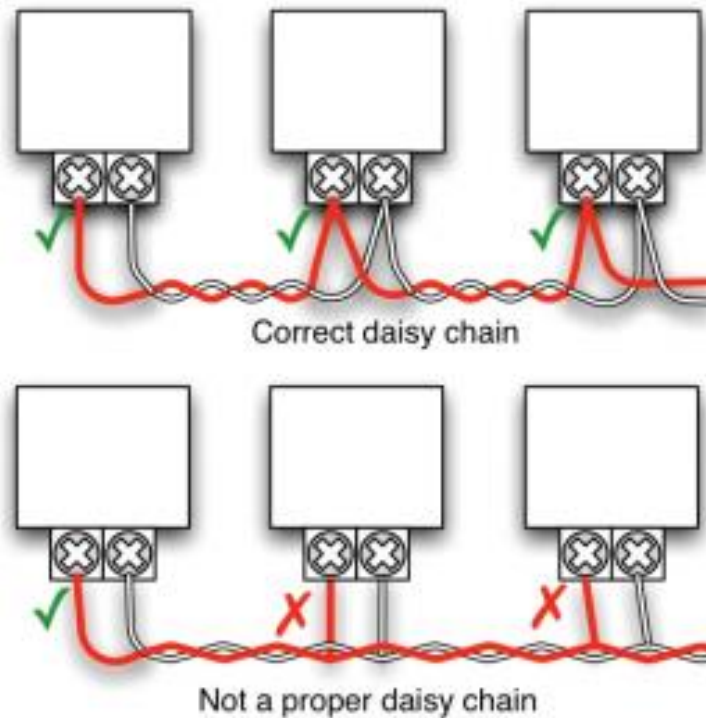
The RS-485 transmission system requires **AWG 24 twisted-pair** cables for best results, to maximize its noise rejection characteristics. The characteristic impedance of the cable is recommended to be 120 ohms.



CoreStation System – Configuration by RS485

✓ Caution

How to connect RS485 cables by daisy chain in correct way?



6. How to wire and program a CoreStation Kit System with BioStar 2.

Suprema

4 DOOR ACCESS CONTROL KIT



<https://youtu.be/VNRbYBvtdy4>

Thank you!