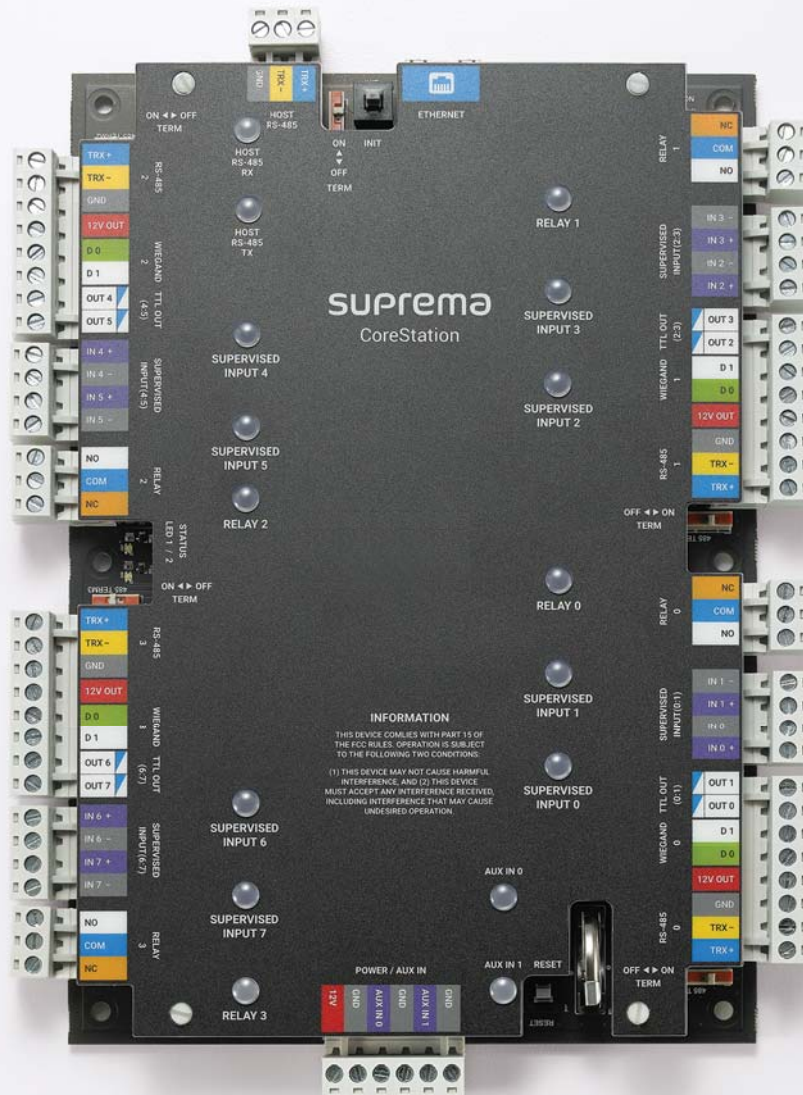# CoreStation

Intelligent Biometric Controller

| CoreStation | Suprema CoreStation is an intelligent door controller which provides the advantages of a biometric-enabled security over a centralized access control systems. Designed for mid to enterprise-level systems, the CoreStation handles up to 500,000 users with an incredible fingerprint matching speed of upto 400,000 match/sec. With the provisions of high-performance, biometric readiness, Ethernet communication, CoreStation is capable of offering the full features of the BioStar 2 platform. The device provides centralized biometric template management and also interfaces with complete set of reader technologies including RS-485(OSDP) and Wiegand. With its versatility, CoreStation is a perfect access control solution for both new installations as well as a replacement of existing systems.

CoreStation
Intelligent Biometric Controller

Features

Centralized Biometric Access Control
• Centralized storage of biometric and access group data
• Complete controller functionalities with fingerprint matching
• Multi-port interface for fingerprint/RF readers
  - Supports locks, sensors, RTE, and alarm devices

Enterprise-level Capacity
• Max 500,000 users (1 million fingerprint templates)
  - 500,000 RF cards / 5,000,000 event logs
• High-speed fingerprint matching
  - Max 400,000 match/sec (genuine matching)

Improved Security
• No Ethernet connection to the door reader
• No data storage at the door reader
• Secured communication between server and CoreStation (TLS 1.2)

System Flexibility and Scalability
• Controls up to 132 access points with extension modules (DM-20)
• Elevator Control (OM-120)
• Supports OSDP (Open Supervised Device Protocol)
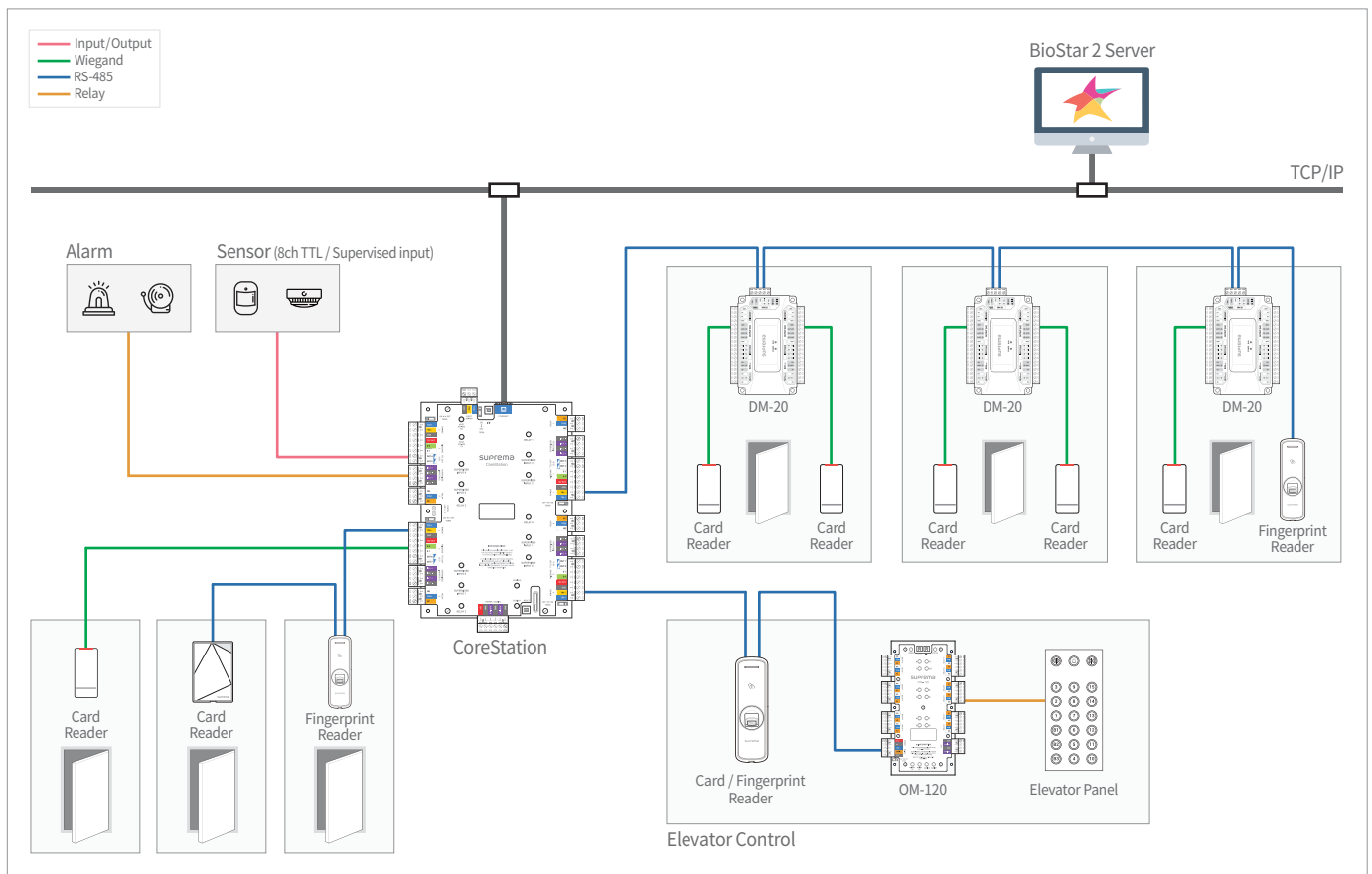
Fully Compatible with BioStar 2
• Easy operation and configuration
• Comprehensive access control and time & attendance
  functionalities

BioStar 2

Specifications

CPU	1.4 GHz Octa Core
Memory	8GB Flash + 1GB RAM
Max. User	500,000 (1:1), 100,000(1:N)
Max. Template	1,000,000(1:1), 200,000(1:N)*
Max. Logs	5,000,000(text)
Serial Comm. Protocol	OSDP V2
Ethernet	10/100Mbps, auto MDI/MDI-X
RS-485	5ch
Wiegand	4ch input or output (selectable)
Relay	4 relays
TTL Input	8ch (Supervised input selectable)
TTL Output	8ch
AUX Input	2ch (AC Power Fail, Tamper)
Operating Temperature	0°C ~ 50°C
Dimensions (WxHxD,mm)	150 x 214 x 21 mm
Power	DC 12V
Power Output (Reader)	4ch (DC 12V)
Certification	CE, FCC, KC, RoHS, WEEE, REACH

* Two templates per finger

System Configurations

— Input/Output
— Wiegand
— RS-485
— Relay

BioStar 2 Server

TCP/IP

Alarm
Sensor (8ch TTL / Supervised input)

CoreStation

Card Reader
Card Reader
Fingerprint Reader

DM-20
DM-20
DM-20

Card Reader
Card Reader
Card Reader
Card Reader
Card Reader
Fingerprint Reader

Card / Fingerprint Reader
OM-120
Elevator Panel

Elevator Control