

Squadron®



For Healthcare Facilities

The Squadron® family for access control provides cost-effective modular options to tailor hardware to specific access and alarm needs. Leveraging the power of Linux®, Squadron brings unprecedented strength, stability, and flexibility to access control installations in an easy-to-use format. Using VertX™ from HID® in conjunction with CBORD® card systems' exclusive software, the Squadron family takes you where no other healthcare facility access solution can go.

Tremendous Capabilities

Squadron is strong and versatile. Controlling up to thirty-two doors and operating online, Squadron provides access decisions for a virtually unlimited volume of patrons. Even when operating offline, each Squadron set maintains up to one million card holders and tremendous capabilities, including transaction buffering and local alarms.

Fit Any Need

The modular approach to Squadron's design provides multiple configurations to fit any need and meet the full range of healthcare facility access control concerns. Whether using the 2-Door Controller or a Master with Connectors, Squadron can control doors and utilize alarm inputs and outputs as necessary. Even installation, configuration, and maintenance are flexible. Each unit is roughly the size of a double CD case and has multiple mounting options, covers, and bases for durability, removable screw-down connections, and wiring label silk-screened on the panel for simple installation. Host configuration is done through a simple wizard.

Stability and Security

Stability is always a factor in access control. With forty megabytes of flash memory, Squadron has tremendous offline file management capability. Each master unit maintains a rotating set of three different offline databases, ensuring validity and allowing updates to occur in the background without affecting the live data set. The AES encrypted TCP/IP communications provide a fast, robust channel for communications from Squadron to CS Access™, enabling full updates in a fraction of the time of traditional panels. Additional security measures, such as physical controls for software loads and key diversifications, contribute to overall security and stability.

Deployment

CBORD offers two distinct deployment options:

- A non-expandable, self-contained unit that controls two doors.
- A mix-and-match approach allowing larger installations to meet a variety of access requirements.

Each of the Squadron panel components has a plastic cover and base for labeling and protection. Mounting can be done either directly to the wall or within an enclosure depending on space and healthcare facility protocol. Every component requires 12 volts of DC power.

V2000 2-Door Controller—The non-expandable unit contains all the processors and connections necessary to control two doors. It has a direct Ethernet connection to CS Access version 4.2.4 or higher, enabling host-downloadable firmware at the click of a button.

Revolutionary Access Control

- **Handles up to one million offline card holders and 60,000 offline door transactions**
- **Control up to thirty-two doors from one panel**
- **Flash programmable**
- **Lower cost per door**
- **Direct Ethernet communication**
- **Flexible configurations with expansion capabilities**
- **Enhanced host configuration wizards**

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V1000 and V1000R Master Network Controller—These units do not control doors without a connector unit, but do contain all the intelligence necessary to manage access control and alarms for up to sixteen connector units. Like the V2000, they provide direct Ethernet connection to CS Access version 4.2.4 or higher and host-downloadable firmware.

V100 2-Door Connector—This component communicates with a Master over an RS485 daisy chain and has all the connections necessary to control two doors, including readers, door position, strike, request to exit, and auxiliary outputs.

V200 Input Monitor Interface—This component communicates with a Master over an RS485 daisy chain and has all the connections necessary to monitor sixteen supervised or unsupervised alarm inputs.

V300 Output Control Interface—This component communicates with a Master over an RS485 daisy chain and has the connections necessary to control twelve output relays.

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Overall Value

Used in conjunction with CS Access, the overall benefits of software alarm management, patron management, and scalability put Squadron in a class by itself. A fully integrated, modular system allows customers to build what they need today and preserve future expansion capabilities. Squadron can be tailored for today and accommodate tomorrow.

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Specifications

V2000 2-Door Controller

Dimensions:

5.8" W x 4.825" H x 1.275" D (14.73 cm x 12.26 cm x 3.23 cm)

Weight: 12.8 ounces (0.36 kg)

Power Supply Requirements: 160 mA @ 9-18VDC

Recommended:

Supervised linear power supply with battery backup, input surge protections, and AC fail and low-battery contact outputs.

Operating Environment:

Indoors or NEMA-6 enclosure, 32°F to 122°F (0°C to 50°C), 5% to 95% relative humidity, non-condensing

Operating System: Linux 2.4.14

Communication Ports:

TCP/IP—10 or 100Mbps, SIA standard Wiegand/clock and data (two)

Memory: 40MB

V1000 and V1000R* Master Network Controller

Dimensions:

5.8" W x 4.825" H x 1.275" D (14.73 cm x 12.26 cm x 3.23 cm)

Weight: 12.5 ounces (0.35 kg)

Power Supply Requirements: 140 mA @ 9-18VDC

Recommended:

Supervised linear power supply with battery backup, input surge protections, and AC fail and low-battery contact outputs.

Operating Environment:

Indoors or NEMA-6 enclosure, 32°F to 122°F (0°C to 50°C), 5% to 95% relative humidity, non-condensing

Operating System: Linux 2.4.14

Communication Ports:

TCP/IP—10 or 100Mbps, RS485 two-wire, configurable

Memory: 40MB

*V1000R also supports RS485 PIM (Wyreless® Access), IR® Biometric HandKey® II reader and A2005 reader.

V100 2-Door Connector

Dimensions:

5.8" W x 4.825" H x 1.275" D (14.73 cm x 12.26 cm x 3.23 cm)

Weight: 12.1 ounces (0.34 kg)

Power Supply Requirements: 50 mA @ 9-18VDC

Recommended:

Supervised linear power supply with battery backup, input surge protections, and AC fail and low-battery contact outputs.

Operating Environment:

Indoors or NEMA-6 enclosure, 32°F to 122°F (0°C to 50°C), 5% to 95% relative humidity, non-condensing

Communication Ports:

RS485, two-wire, configurable, two SIA standard Wiegand/clock and data

V200 Input Monitor Interface

Dimensions:

5.8" W x 4.825" H x 1.275" D (14.73 cm x 12.26 cm x 3.23 cm)

Weight: 12.8 ounces (0.36 kg)

Power Supply Requirements: 160 mA @ 9-18VDC

Recommended:

Supervised linear power supply with battery backup, input surge protections, and AC fail and low-battery contact outputs.

Operating Environment:

Indoors or NEMA-6 enclosure, 32°F to 122°F (0°C to 50°C), 5% to 95% relative humidity, non-condensing

Operating System: Linux 2.4.14

Communication Ports:

TCP/IP—10 or 100Mbps, SIA standard Wiegand/clock and data (two)

Memory: 40MB

V300 Output Control Interface

Dimensions:

5.8" W x 4.825" H x 1.275" D (14.73 cm x 12.26 cm x 3.23 cm)

Weight: 12.5 ounces (0.35 kg)

Power Supply Requirements: 140 mA @ 9-18VDC

Recommended:

Supervised linear power supply with battery backup, input surge protections, and AC fail and low-battery contact outputs.

Operating Environment:

Indoors or NEMA-6 enclosure, 32°F to 122°F (0°C to 50°C), 5% to 95% relative humidity, non-condensing

Operating System: Linux 2.4.14

Communication Ports:

TCP/IP—10 or 100Mbps, RS485 two-wire, configurable

Memory: 40MB

