

72000

VertX V2000 Reader Interface/Network Controller

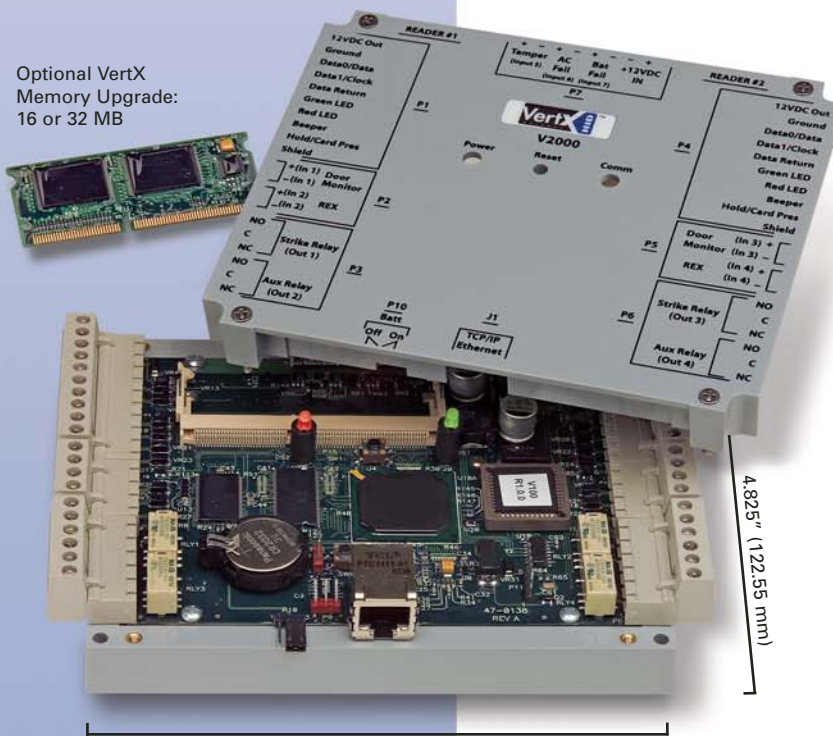
Access Control Processing and Host Interface for Two Readers/Doors

The HID VertX products provide a complete and fully featured hardware/firmware infrastructure for OEM access control software host systems, communicating via industry standard TCP/IP protocol, over 10/100 Mbps Ethernet, or the Internet. It can also interface with a Windows DLL. The V2000 boasts a 32-bit RISC processor running the Linux Operating System. On-board flash memory allows program updates to be downloaded via the network. The V2000 connects to two access control card readers via Wiegand or Clock-and-Data interface controlling either one or two doors. This architecture takes advantage of the existing corporate LAN and the existing CAT-5 cable.

Features

- Connects with and stores a complete access control and configuration database for one or two controlled doors and 44,000 cardholders with expansion capability to 250,000 cardholders.
- Processes access control decisions.
- Reports supervised inputs/alarms with 255 priorities.
- Includes an HTTP API, Windows® DLL-based API, and a direct communication API.
 - Allows local connection of a laptop computer for diagnostics and configuration.
 - Connects to the host and to other devices on the TCP/IP network.
 - Receives and processes real time commands from the host software application.
 - Reports all activity to the host
 - Controls and communicates with all connected devices.
 - Buffers offline transactions and uploads to the host when communication is restored.
 - UL 294 and UL 1076 recognized components.

Optional VertX
Memory Upgrade:
16 or 32 MB



5.8" (147.32 mm)

4.825" (122.55 mm)



VertX™ V2000 2-Door Access Control / Network Interface Unit

Features

Configuration

Attractive polycarbonate enclosure protects components from damage and all connections and indicators are fully identified by silk-screened nomenclature on the cover.

Mounting

Mount to any wall surface, using four screws. For UL compliance, one or more gateways can be mounted inside a locking customer-supplied NEMA-4 rated enclosure with:

- DC supply with battery back-up
- Enclosure tamper switch
- All connections made through conduit

The unit should be installed indoors, inside a secure area, such as in an IT or telecommunications room, utility closet or on a wall above a suspended ceiling.

Visual Indicators

Voltage LED indicates that sufficient DC voltage is being provided to the unit. RS-485 communications LED: solid green indicates successful communications to downstream devices, red flash indicates a failed communications attempt, solid red indicates no communications.

Easily Interfaced

- RJ-45 connector for Ethernet TCP/IP
- Quick-disconnect screw terminal connectors
- Inputs for:
 - 2 readers
 - 2 door monitor switches,
 - 2 Request-to-Exit switches
 - AC Fail Monitor*
 - Battery Fail Monitor*
 - Enclosure Tamper*

*Can be configured as a general purpose input

Non-latching relay outputs rated 2 A @ 12 VDC

- 2 door strikes (configurable)
- 2 auxiliary devices: (door held/forced alarm, alarm shunt, host offline (comms down), or general purpose

Hardware

- 32-bit AXIS RISC CPU, 100 MHz, LX/100
- Microchip PICmicro TM 18F Microcontroller

Memory

- 8 MB onboard, expandable to 40 MB
- 8 MB Flash Memory
 - 16 MB / 32 MB memory expansions available
- 32 MB SDRAM
- 256K SRAM

Warranty

Warranted against defects in materials and workmanship for 18 months. (See complete warranty policy for details.)

Part Numbers

Base Part Number: 72000



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Specifications

Dimensions

5.8" W x 4.825" H x 1.275" D
(147.32 mm x 122.55 mm x 32.38 mm)

Weight: 13.6 oz (.38 kg)

Enclosure Material: UL94 Polycarbonate

Power Supply Requirements

160 mA @ 12-18 VDC (with no readers connected)
Recommended: Supervised linear power supply with battery backup, input surge protection, and AC Fail and battery low contact outputs. V2000 can supply 350 mA @ 12 VDC to two connected readers.

Separate supervised DC supply with battery back-up recommended for door locking or relay activated devices or for HID MaxiProx readers.

Operating Environment

Indoors or customer supplied NEMA-4 rated enclosure

Temperature

32° to 122° F (0° to 50° C)

Humidity

5% to 95% relative, non-condensing

Communication Ports

TCP/IP – 10 or 100 Mbps
SIA standard Wiegand/clock and data – two ports

Certifications

UL 294 and UL 1076 Recognized Component for the US CSA 205 for Canada Class A EMC for the US (FCC Part 15B Verification), Canada, EU (CE Mark), Australia (C-Tick Mark), New Zealand, Japan

Cable Distance

TCP/IP – 300 feet (100 m) to next device using Category 5 cable, Alpha 9504C or 9405F

Wiegand – 500 feet (150 m) to reader using ALPHA 1299C, 22AWG, 9-conductor, stranded, overall shield. (Fewer conductors needed if all control lines are not used)

Input Circuits – 500 feet (150 m), 2-conductor, shielded, using ALPHA 1292C (22AWG) or Alpha 2421C (18AWG)

Output Circuits – 500 feet (150 m), 2-conductor, using ALPHA 1172C (22AWG) or Alpha 1897C (18AWG)

Minimum wire gauge depends on cable length and current requirements.



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