



VertX™ V2000 Reader Interface/ Network Controller



ACCESS CONTROL PROCESSING AND HOST INTERFACE FOR TWO READERS/DOORS • 72000

- 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.
- Enables 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.

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 enables 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.

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.

HARDWARE:

- 32-bit RISC CPU, 100 MHz
- Microcontroller

VISUAL INDICATORS

Power 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 2A @ 30 VDC

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

HARDWARE:

- 32-bit RISC CPU, 100 MHz
- Microcontroller

MEMORY:

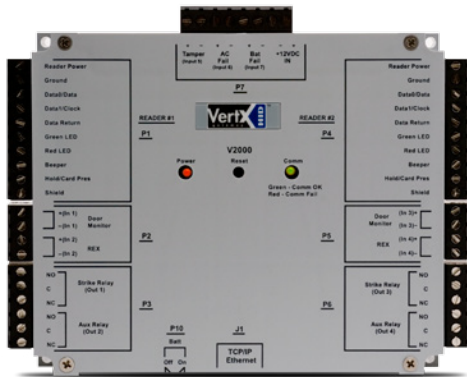
- 8 MB onboard Flash memory
- 16 MB/32 MB memory expansions available
- 32 MB SDRAM
- 256k SRAM

WARRANTY

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

PART NUMBERS

Base Part Number: 72000



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 Enclosure
Operating Temperature	32° to 122° F (0° to 50° C)
Operating Humidity	5% to 95% relative, non-condensing
Communications 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, FCC Class A Verification, EMC for 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, 22 AWG, 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 (22 AWG) or Alpha 2421C (18 AWG); Output Circuits — 500 feet (150 m), 2-conductor, using ALPHA 1172C (22 AWG) or Alpha 1897C (18 AWG). Minimum wire gauge depends on cable length and current requirements.

North America: +1 949 732 2000
Toll Free: 1 800 237 7769
Europe, Middle East, Africa: +49 6123 791 0
Asia Pacific: +852 3160 9800
Latin America: +52 477 779 1492

ASSA ABLOY

An ASSA ABLOY Group brand