

V2000 Reader Interface/Network Controller

Access Control Processing and Host Interface for Two Readers/Doors • 72000



ACCESS opportunity.

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.

Features

Specifications

- 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** 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 2 A @ 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

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 @ 12-18VDC (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 @ 12VDC 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

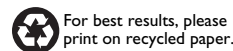
Certifications

UL 294 and UL 1076 Recognized Component for the US CSA 205 for Canada, 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, 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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ACCESS experience.

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