

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: +44 1440 714 850
Asia Pacific: +852 3160 9800
Latin America: +52 55 5081 1650

hidglobal.com

ASSA ABLOY

An ASSA ABLOY Group brand

© 2011 HID Global Corporation. All rights reserved. HID, the HID logo, Crescendo, naviGO, HID on the Desktop, and iCLASS are trademarks or registered trademarks of HID Global in the U.S. and/or other countries. All other trademarks, service marks, and product or service names are trademarks or registered trademarks of their respective owners.
20130114-pacs-vertx-v2000-controller-ds-en