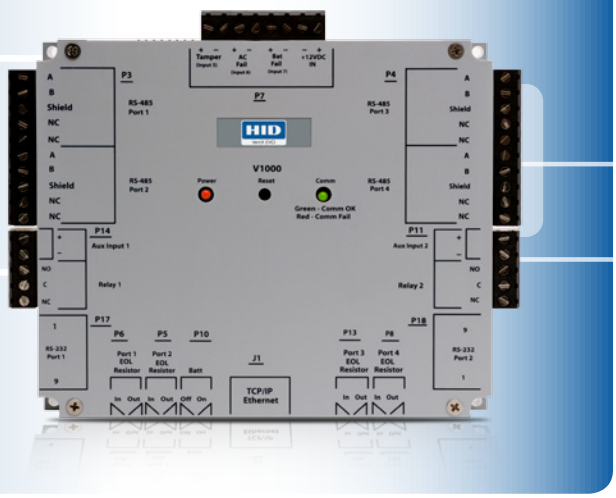
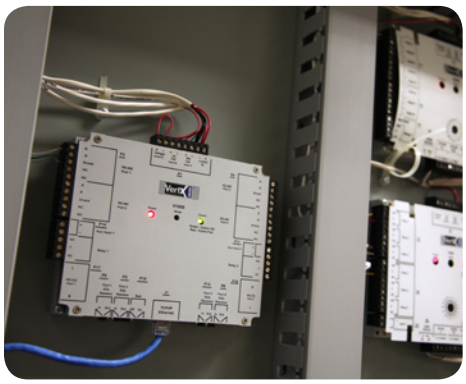
VertX EVO™ V1000 Networked Controller





NETWORKED ACCESS CONTROLLER FOR INTERFACE WITH UP TO 32 DOOR CONTROLLERS

- **Open Architecture** – Development platform enables use of hardware with any OPIN compliant access control software from a wide variety of partners.
- **Master Controller** – Minimizes corporate Local Area Network (LAN) overhead by providing access control decisions for up to 64 readers.
- **High Performance** – Powerful platform performance increases door uptime.
- **Versatile Interoperability** – Works with standard VertX® Controllers and is interoperable with VertX V100, 200 and 300 interface modules.

Cable Specifications

Ethernet:
- 300ft (100m), CAT-5
- ALPHA 9504C, ALPHA 9405F

RS-485 (for Vx00 connection):
- 4000ft (1219m), 2-twisted pair shielded 100Ω cable (two independent RS-485 networks)
- 22AWG Belden 3105

Input Circuits:
- 500ft (150m), 2-conductor shielded
- 22AWG ALPHA 1292C
- 18AWG ALPHA 2421C

Output Circuits:
- 500ft (150m), 2-conductor shielded
- 22AWG ALPHA 1172C
- 18AWG ALPHA 1897C

HID Global's Networked Access Solutions provide an open architecture development platform that enables HID's software partners to deploy a wide variety of versatile access control systems that protect their customers' hardware investments.

As part of HID Global's Networked Access Solutions, VertX EVO™ V1000 is a multi-door access control panel that reduces the burden on corporate LANs by connecting up to 32 door controllers using only one IP address.

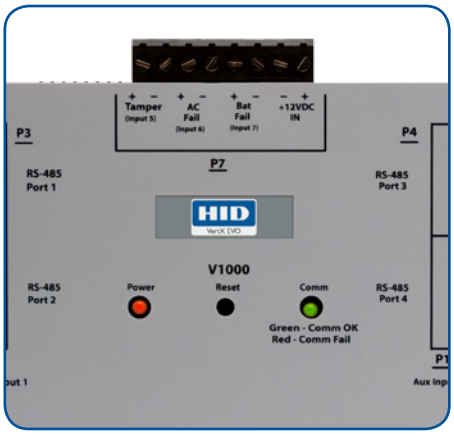
VertX EVO V1000 handles all online door decisions, input monitoring and output control for all connected interface modules. The solution has two on-board inputs and outputs for local input point monitoring and auxiliary output control, and is powered by a local power supply (12 or 24 VDC). VertX EVO V1000 works with standard VertX V100 door interface, V200 input monitor and V300 output control interface modules.

VertX EVO solutions are created for both on-site system administration as well as service oriented off-site solutions, depending on the OEM software provider's total solution.

Providing access to a complete ecosystem of partner solutions, VertX EVO enables customizable products that leverage the unique power of individual software provider offerings.

Features:

- Provides a complete and fully functional hardware/firmware infrastructure for access control software host systems.
- Enables the replacement of head end software without visiting the access control panel, reducing change out costs.
- Stores a complete access control and configuration database for up to 32 Reader Interfaces (up to 64 doors) and 250,000 cardholders.
- Connects to the host and other devices on a TCP/IP network.
- Transactions event buffer max 99,999
- Receives and processes real-time commands from the host software application.
- Reports all activity to the host; reports supervised inputs /alarms with 255 priorities.
- Provides fully functional offline operation when not actively communicating with the host access control software application, performing all access decisions and event logging.
- Access control system interfaces with a maximum of 32. device combinations. Devices are:
  - V100 – Door/reader interface (up to doors/1 reader or 1 door/2 readers)
  - V200 – Input monitor interface (up to 16 monitor points per device)
  - V300 – Output control interface (up to 12 control relays per device)



SPECIFICATIONS

Model (and Part #)	EVO V1000 (71000BEP0N01A)
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
Dimensions	"5.8" W x 4.825" H x 1.275" D (147.32 mm x 122.55 mm x 32.38 mm)"
Weight	12.4 oz (.35 kg)
Housing Material	UL94 polycarbonate
Audio / Visual Indicators	Power LED and RS-485 Communications LED
Operating Temperature	32° to 122° F (0° to 50° C)
Operating Humidity	5% to 95% relative, non-condensing
Storage Temperature	-67° to 185° F (-55° to 85° C)
Communication Ports	Ethernet (10/100), RS485 (half duplex)
Certifications	UL294 (US) Listed Component, CSA 205 (Canada), FCC Class A (US), ICES-003 Class A (Canada), CE Mark EN 301 489-3 EN 55022 EN 50130-4 (EU), C-Tick AS/NZS CISPR 22 (Australia, New Zealand) & Korea (KCC)
Warranty	Warrantied against defects in materials and workmanship for 18 months (See complete warranty policy for details).
Input Power	
Operating Current (MAX) @ 12-24VDC	1000mA
Operating Current (AVG) @ 12VDC	210mA
Supervised Inputs Power (MAX)	0.025W (5mA sink, 5V nominal) 0 to +5VCD Ref
Relay Rating	
Relay Contact Rating (Dry Output)	2A @ 30VDC (MAX Amperage that is UL Certified) 5A @ 30VDC

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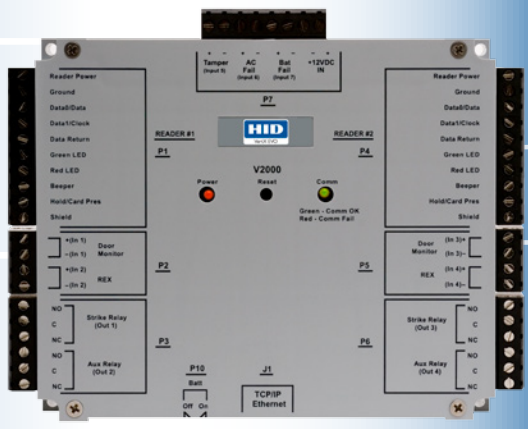
NETWORKED ACCESS SOLUTIONS

V2000 Reader Interface/ Networked Controller



Cable Specifications

Ethernet:
- 300ft (100m), CAT-5
- ALPHA 9504C, ALPHA 9405F

Wiegand / C&D:
- 500ft (150m), 9-conductor shielded
- 22AWG ALPHA 1299C

Input Circuits:
- 500ft (150m), 2-conductor shielded
- 22AWG ALPHA 1292C
- 18AWG ALPHA 2421C

Output Circuits:
- 500ft (150m), 2-conductor shielded
- 22AWG ALPHA 1172C
- 18AWG ALPHA 1897C

ACCESS CONTROL PROCESSING AND HOST INTERFACE FOR TWO READERS

- **Open Architecture** – Development platform enables use of hardware with any OPIN compliant access control software from a wide variety of partners.
- **Two Reader Support** – To protect two doors with a single reader, or in/out reading on a single door.
- **High Performance** – Powerful new platform increases cardholder capacity, decreases door transaction time and increases door uptime.

HID Global's Networked Access Solutions provide an open architecture development platform that enables HID's software partners to deploy a wide variety of versatile access control systems that protect their customers' hardware investments.

As part of HID Global's Networked Access Solutions, VertX EVO™ V2000 is a two-reader access control panel that enables interface with two doors (single reader) or one door (in/out reading).

VertX EVO V2000 handles all online door decisions, door input monitoring and output control and reader interface for up to two doors. The EVO V2000 has two inputs per door for door monitor and REX, and 2 outputs per door for lock and AUX.

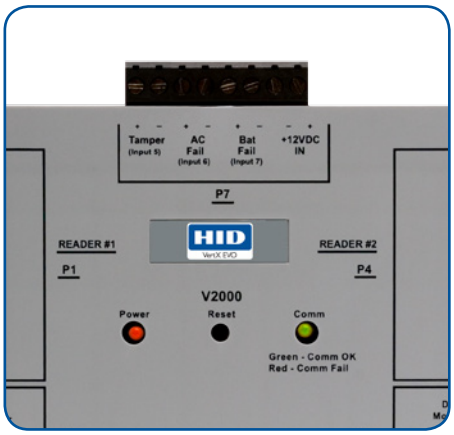
Additionally the solution has three inputs for AC power fail, Battery power fail and Tamper. The EVO V2000 is powered by a local power supply (12 or 24 VDC).

VertX EVO solutions are created for both on-site system administration as well as service oriented off-site solutions, depending on the OEM software provider's total solution.

Providing access to a complete ecosystem of partner solutions, VertX EVO enables customizable products that leverage the unique power of individual software provider offerings.

Features:

- Provides a complete and fully functional hardware/firmware infrastructure for access control software host systems.
- Enables the replacement of head end software without visiting the access control panel, reducing change out costs.
- Stores a complete access control and configuration database for up to 2 Reader Interfaces (up to 2 doors) and 250,000 cardholders.
- Transactions event buffer max 99,999
- Connects to the host and other devices on a TCP/IP network.
- Receives and processes real-time commands from the host software application.
- Reports all activity to the host; reports supervised inputs /alarms with 255 priorities.
- Provides fully functional offline operation when not actively communicating with the host access control software application, performing all access decisions and event logging.
- Interface for two Wiegand or Clock-and-Data readers; inputs for 2 door monitors, 2 REX switches, AC fail, Battery fail and Tamper.
- Non-latching relay outputs rated 2 A @ 30 VDC
  - o 2 door strikes (configurable)
  - o 2 auxiliary devices (door held/ forced alarm, alarm shunt, host offline (communication



SPECIFICATIONS

Model (and Part #)	EVO V2000 (72000BEP0N01A)
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
Dimensions	5.8" W x 4.825" H x 1.275" D (147.32 mm x 122.55 mm x 32.38 mm)
Weight	12.4 oz (.35 kg)
Housing Material	UL94 polycarbonate
Audio / Visual Indicators	Power LED and Communications LED
Operating Temperature	32° to 120° F (0° to 49° C)
Operating Humidity	5% to 85% relative, non-condensing
Storage Temperature	-67° to 185° F (-55° to 85° C)
Communication Ports	Ethernet (10/100)
Certifications	UL294 (US) Listed Component, CSA 205 (Canada), FCC Class A (US), ICES-003 Class A (Canada), CE Mark EN 301 489-3 EN 55022 EN 50130-4 (EU), C-Tick AS/NZS CISPR 22 (Australia, New Zealand) & Korea (KCC)
Warranty	Warrantied against defects in materials and workmanship for 18 months (See complete warranty policy for details).
Input Power	
Operating Current (MAX) @ 12-24VDC	1000mA
Operating Current (AVG) @ 12VDC	625mA (with 2 iCLASS Readers)
Supervised Inputs Power (MAX)	0.025W (5mA sink, 5V nominal) 0 to +5VCD Ref
Output Power (MAX) for individual field devices	
Wiegand / C&D Reader	12VDC, 250mA each
Relay Outputs	30VDC, 2Amp, resistive

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