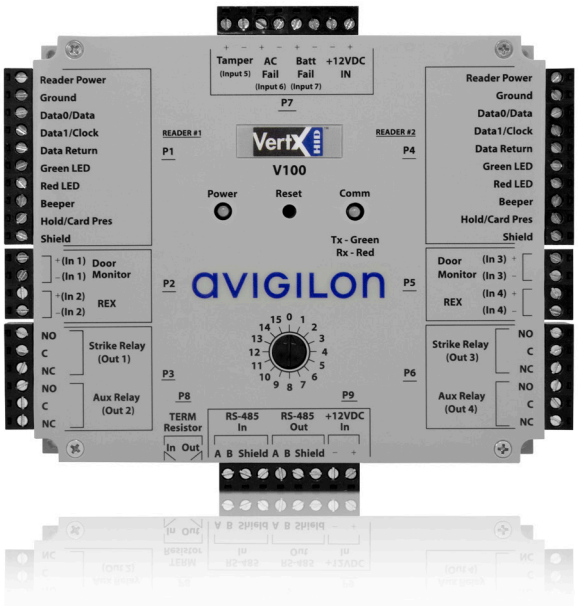
VertX® V100 Door/Reader Interface

Avigilon™ Access Control Manager (ACM) supports open field hardware from HID™ Global allowing organizations to leverage investments in non-proprietary field hardware, with retrofit programs available for industry standard door hardware and card readers, including contact/contactless smart card, proximity, magnetic stripe and barcode.



The HID Global VertX® V100 door/reader interface connects two access control card readers via Wiegand or Clock-and-Data interface, controlling either one or two doors. The V100 features on-board flash memory, enabling program updates to be downloaded via the network. The V100 connects to the V1000 through a high speed RS-485 network. The V1000, in turn, communicates with the Access Control Manager via industry-standard TCP/IP protocol over 10/100 Mbps Ethernet or the Internet. This architecture minimizes the impact on corporate LANs by using only one TCP/IP address for every 32 interfaces and by handling low-level transactions on the RS-485 network.

KEY FEATURES

- Reports supervised inputs.
- Connects to the V1000 via RS-485.
- Receives and processes real-time commands from the V1000.
- Reports all activity to the V1000.
- Attractive polycarbonate enclosure protects components from damage
- All connections and indicators are fully identified by silk-screened nomenclature on the cover.
- Processes off-line access control decisions based on facility code.
- UL 294 and UL 1076 recognized components.

PLATINUM HID Physical Access

Specifications

CONTROLLER	Audio / Visual indicators	Power LED and RS-485 Communications LED
	Communication Ports	RS-485 — two wire. Two SIA standard Wiegand/Clock-and-Data ports
	Warranty	Warrantied against defects in materials and workmanship for 18 months

MECHANICAL	Dimensions (WxHxD)	147.32 mm x 122.55 mm x 32.38 mm; 5.8” x 4.825” x 1.275”
	Weight	0.35 kg; 12.4 oz
	Housing Material	UL94 polycarbonate
	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

CABLE SPECIFICATION	RS-485	• 4000 feet (1220 m) to host using Belden 3105A, • 22 AWG twisted pair, shielded cable
	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.

ELECTRICAL	Power Supply Requirements	60 mA @ 9-18 VDC (with no readers connected) Recommended: Supervised linear power supply with battery backup, input surge protection, and AC fail and battery low contact outputs. When VertX is supplying power to readers the requirements are 600 mA @ 9-18VDC. The V100 can supply 500 mA to two readers
	Supervised Inputs Power (MAX)	0.025W (5mA sink, 5V nominal) 0 to +5VCD Ref

ENVIRONMENTAL	Operating Temperature	0° C to 50° C (32° F to 122° F)
	Humidity	5 - 95% Relative humidity (non-condensing)

CERTIFICATIONS	UL294 and UL 1076 (US)	CSA 205 (Canada)	FCC Class A
	CE Mark, EN 50130-4 (EU)		
	EMC for Canada, EU (CE Mark), Australia (C-Tick Mark), New Zealand, Japan		

ORDERING INFORMATION	AC-HID-VERTX-V100	VertX® V100 Door/Reader Interface (70100AEP0N-AVG)

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