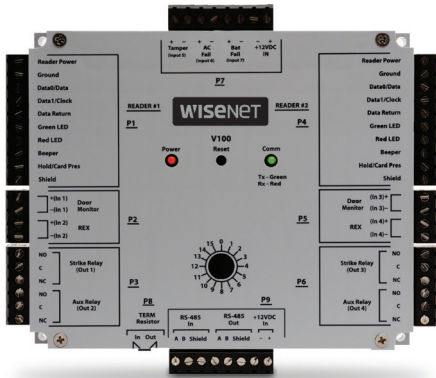


# V100

Expansion Reader Module



## 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

	V100
Dimensions (WxHxD)	5.8" x 4.825" x 1.275"(147.32mm x 122.55mm x 32.38mm)
Weight	12.4 oz (.35Kg)
Enclosure Material	UL94 polycarbonate
Power Supply Requirements	60mA@9 - 18V DC (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 600mA@9 - 18V DC. The V100 can supply 500mA to two readers. Separate supervised DC supplies with battery backup recommended for door locking or relay-activated devices, or for HID MaxiProx® readers.
Operating Environment	Indoors, or customer-supplied NEMA-4 rated enclosure
Operating Temperature	32°F to 122°F (0°C to 50°C)
Operating Humidity	5% to 95% relative, non-condensing
Communication Ports	RS-485 - two wire. Two SIA standard wiegand/clock-and-data 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, EN 50130-4 access control systems Immunity for the EU (CE mark)
Cable Distance	RS-485 - 4000feet (1220m) to host using Belden 3105A, 22 AWG twisted pair, Shielded 100Ω cable : Wiegand -500feet (150m) to reader using Alpha 1299C 22 AWG, 9-conductor, Stranded, Overall shield (Fewer conductors needed if all control lines are not used) : Input circuits - 500feet (150m), 2-conductor, Shielded, Using Alpha 1292C (22 AWG) or Alpha 2421C (18 AWG) : Output circuits - 500feet (150m), 2-conductor, Using Alpha 1172C (22 AWG) or Alpha 1897C (18 AWG) : Minimum wire gauge depends on cable length and current requirements.

\* The latest product information / specification can be found at [hanwha-security.com](http://hanwha-security.com)  
 \* Design and specifications are subject to change without notice.