

Architectural and Engineering Specifications

GV-SR1251 Card Reader

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The document is written using industry standard formatting and language, and is designed for use by architects, consultants, and specifying engineers who are preparing bid specifications for security cameras, surveillance systems and access control systems.

The electronic version of these specifications may be copied into the appropriate sections of a complete bid specification by using the “cut and paste” method. They are written to highlight the features and specifications of GeoVision products. Section headings mention specific models only for clarity – these may be deleted after insertion into the complete specification.

Product covered in this document includes:

- *GV-SR1251 Card Reader*

All specifications are subject to change without prior notice. For more information on GeoVision products, please visit www.geovision.com.tw.

GV-SR1251 Card Reader



A. General Requirements

1. The card reader shall be capable of performing card verification before access can be granted.
2. The card reader shall read frequency of 125 MHz, supporting proximity EM cards.
3. The card reader shall read UID (unique identification) on ID cards.
4. The card reader shall be equipped with an 8-bit microprocessor CPU.
5. The user shall be able to overlay card numbers recognized at the card reader onto a camera channel on GV-DVR / NVR.
6. The card reader shall be equipped with a LED indicator and a beeper. When a card is read, the LED should change color and the beeper shall beep. The LED indicator and beeper shall also be host-controllable.

B. Interface Requirements

1. Wiegand Interface:
 - A) The card reader shall be a Wiegand card reader of 26 bits.
 - B) The distance between the card reader and the controller through Wiegand connection shall be up to 30 meters (98.43 ft) with GV-AS210 / 410 / 810 and 100 meters (328.1 ft) with GV-AS2110 / 4110 / 8110.
 - C) The Wiegand interface shall support both GeoVision and 3rd party controllers (Wiegand 26 bits).
2. RS-485 Interface:
 - A) The card reader and the controller can be connected through RS-485 connection at 9600 bps.
 - B) Up to 8 card readers shall be able to be connected together with a single RS-485 cable to the RS-485 interface on the controllers.
 - C) The RS-485 interface shall only support GeoVision controllers.
3. The number of card readers supported by GeoVision access controllers shall be as follows.

GV-AS Controllers	Wiegand	RS-485
GV-AS100 / 110 / 120 / 1010 / 1110	Not supported	
GV-AS100 / 110 / 120 with GV-ASBox	Not supported	
GV-AS100 / 110 / 120 with GV-ASNet	Not supported	
GV-AS1520	Not supported	2
GV-AS210 / 2110 / 2120	4	8
GV-AS410 / 4110 / 4111	8	8
GV-AS810 / 8110 / 8111	8	16
GV-EV48	Not supported	2
GV-CS1320	Not supported	2

C. Mechanical Requirements

1. The card reader shall be equipped with a LED indicator that shall light blue in the standby mode and flash green when a card is read.
2. The card reader shall be equipped with a beeper that shall beep when a card is read.
3. You shall be able to change the default settings of the LED and the beeper on the Web interface of the connected GV-AS 21 / 41 / 81 series Controller to externally control the LED and Beeper:
 - You shall be able to specify the output types (Normal, Toggle, Pulse) in which the beeper or LED will be triggered.
 - You shall be able to specify up to 2 alarm conditions (Access Granted, Access Denied, Fire Alarm, Tamper, Duress Event, Held Open, Forced Open, Exit Button, Car Detection) to trigger the LED or beeper.
4. The card reader shall have dimensions of 75 x 115 x 15 mm / 3 x 4.5 x 0.6 in.
5. The card reader shall have a weight of 125 g / 0.27 lb.

D. Power Requirements

1. The card reader shall be capable of receiving power from DC 7.5V ~ 12V.
2. The card reader shall consume 60 mA of power.

E. Environmental Requirements

1. The operating temperature of the card reader shall be within the range of -35 ~ 65° C / -31 ~ 149° F.
2. The operating humidity shall be within the range of 10% ~ 90% RH with no condensation.
3. The card reader shall comply with IP66 protection classification.

F. Packing list shall include:

1. GV-SR1251
2. Screw x 6
3. Plastic Screw Anchor x 4
4. Plastic Case
5. Warranty Card

G. Certifications and Approvals

1. CE, FCC, RoHS compliant.

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