# GV-AS1520 Controller with Built-in UHF RFID Reader

GV-AS1520 is a controller with a built-in Radio Frequency Identification (RFID) reader of ISO18000-6C (EPC GEN2) standard. Designed for parking lot management, GV-AS1520 can read RFID tag within 10 m (32.8 ft).

## KEY FEATURES

- Built-in UHF Reader
- Built-in 1 digital input and 4 relay outputs
- 1 RS-485 interface for connecting to up to 2 readers
- 1 network interface for connection with GV-ASManager and TCP/IP reader
- DC 12V / PoE+ (IEEE 802.3at, provides up to 25.5 W)
- Provide 12V DC power to external devices when in the PoE power mode
- Ideal sensing range within 10 m (32.8 ft)
- Support up to 100000 cards
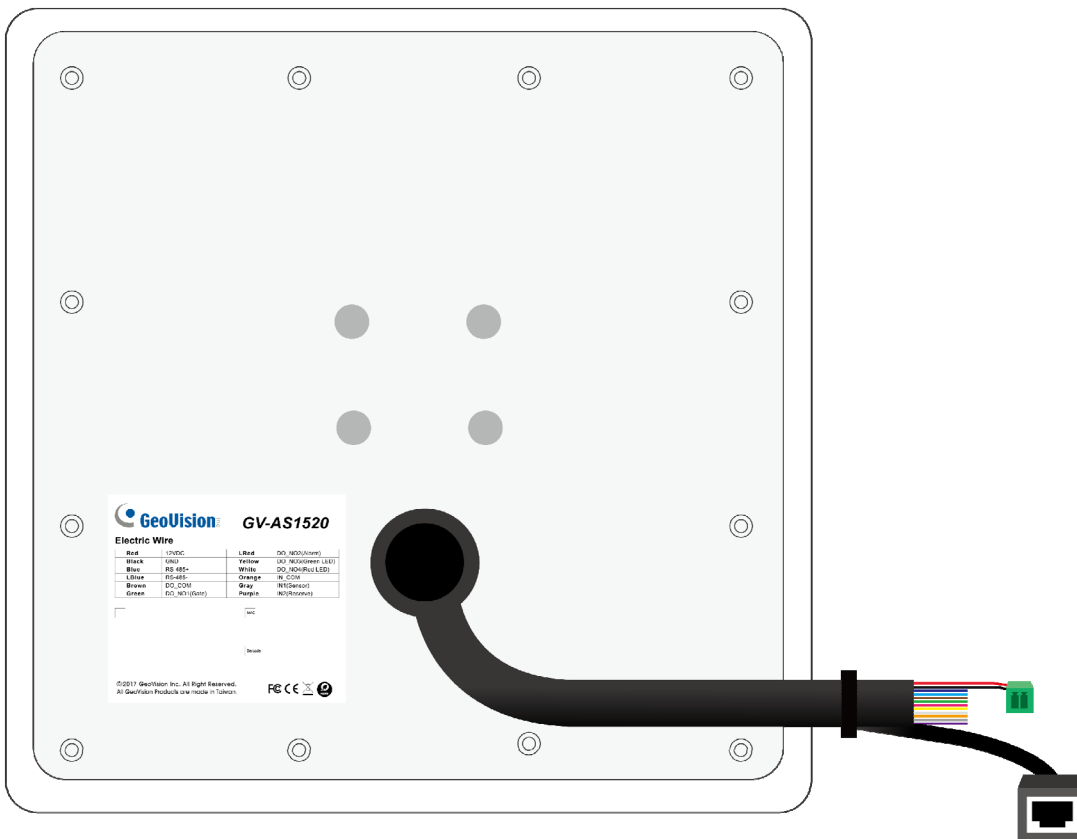- Electronic tag compliant with EPC Gen II (ISO18000-6C) standard

## SPECIFICATIONS

| System Requirements | |
|---|---|
| GV-ASManager Version | GV-ASManager V5.0.1.0 or later |
| **Hardware** | |
| Number of User Cards | 100,000 cards |
| Antenna gain | 7.71 dBi (circular polarization) |
| Antenna receiving | 50 ohm U.FL. |
| Operating frequency | AS1520 TW 922-928 MHz<br>AS1520 US 902-928 MHz<br>AS1520 EU 865-868 MHz |
| Protocol | EPC Gen2 (ISO 18000-6C) |
| Receiving sensitivity | -85 dBm |
| Sensing range | 10 m (32.8 ft) max. |
| Power | 12V DC, 1.25A / PoE+ (IEEE 802.3at, provides up to 25.5 W) |
| RS-485 Interface | 1 RS-485 interface for max. 2 GV-Readers (GV-CR420 / GV-SR1521 / GV-Reader1352 V2 / GV-R1352 / GV-RK1352 / GV-DFR1352) |
| TCP/IP Interface | 1 TCP/IP interface for GV-CR420 and GV-Fingerprint Readers (GV-GF1921 / 1922) |
| Communication Protocol | TCP/IP |
| Digital I/O | Input | 1 input, dry contact, NO / NC |
| | Output | 4 relay output (30V DC, 1A; 110V AC~250V AC, 0.3A) |

| General | |
|---|---|
| Operating Temperature | -20°C ~ 55 °C / -4°F ~ 131°F |
| Humidity | 10 ~ 90% RH (non-condensing) |
| Dimensions (W x H x D) | 228 x 228 x 52.3 mm / 8.97 x 8.97 x 2.04 in |
| Weight | 590 g / 1.30 lb |
| Ingress Protection | IP56 |
| Regulatory | CE, FCC, RoHS compliant |

**Note:**

1. GV-AS1520 is a controller with a built-in UHF RFID reader and therefore it cannot be used as an independent reader.
2. Specifications are subject to change without notice.

## Wire Definitions



| Wire color | Definition | Wire color | Definition |
|---|---|---|---|
| Red | 12V DC | Light Red | DO NO2 (Alarm) |
| Black | GND | Yellow | DO NO3 (Green LED) |
| Blue | RS-485+ | White | DO NO4 (Red LED) |
| Light Blue | RS-485– | Orange | IN COM |
| Brown | DO COM | Gray | IN1 (Sensor) |
| Green | DO NO1 (Gate) | Purple | IN2 (Not Functional) |

## Packing List

- GV-AS1520
- L-Bracket
- Fixed-Clamp
- U-Clip
- Screw x 4
- Quick Guide
- Warranty Card

## Options

Optional devices can expand the capabilities and versatilities of your GV-AS Controllers. Consult your sales representative for more information.

| | |
|---|---|
| GV-SR1251 | GV-SR1251 is a card reader that uses a 125 kHz frequency. It has both Wiegand and RS-485 outputs that can be connected to any standard access control panel. |
| GV-Reader 1352 V2 | GV-Reader 1352 V2 is a card reader that uses a 13.56 MHz frequency. It has both Wiegand and RS-485 outputs that can be connected to any standard access control panel. |
| GV-RK1352 | GV-RK1352 is a card reader with keypad that uses a 13.56 MHz frequency. The reader has both Wiegand and RS-485 outputs that can be connected to any standard access control panel. |
| GV-R1352 | GV-R1352 is a card reader that uses a 13.56 MHz frequency. The reader has both Wiegand and RS-485 outputs that can be connected to any standard access control panel. |
| GV-DFR1352 | GV-DFR1352 is a card reader that uses a 13.56 MHz frequency. The reader has both Wiegand and RS-485 outputs that can be connected to any standard access control panel. |
| GV-CR420 | GV-CR420 is a card reader with a built-in 4MP wide angle IP camera. The card reader recognizes identification cards and transmits live view through network connection. |
| GV-GF Fingerprint Readers | The reader (GV-GF1921 / 1922) supports three operation modes: Fingerprint Only, Fingerprint + Card and Card Only. In Fingerprint Only mode, the fingerprints are enrolled through GV-ASManager. In Fingerprint + Card mode, the fingerprint templates are stored on the user card. In Card Only mode, the users only need to swipe the card to be granted access. Readers with optical and capacitance sensors are available. |
| GV-AS ID Card / Key Fob & GV-UHF Tag | GV-AS ID Card and GV-AS ID Key Fob are ideal for business and residential environment, where access control is important for security reasons. 125 KHz and 13.56 MHz cards and key fobs are available. GV-UHF Tag is ideal for parking lot management. 900 MHz UHF Tag is available. |
| GV-WTR | GV-WTR is a converter designed to support Wiegand interface to RS-485 interface, thereby enabling 3rd party readers to be connected to RS-485 GV-Controllers. Through the GV-WTR, Wiegand-interface readers can be easily combined to access control systems for improved versatility. |
| Power Adapter 12V DC / 1.25 A | Contact our sales representatives for the countries and areas supported. |