

## GV-AS1620 Single Door IP Controller



### Introduction

GV-AS1620 is a single door controller with three types of interfaces, Wiegand, RS-485 and TCP/IP, to accommodate various readers for entry and exit management. Through its I/O pins, not only does it provide basic door operations but also alarm, tamper and fire sensor applications, as well as allowing LEDs connected to indicate an access granted and denied.

When directly connecting to IP cameras or connecting IP cameras using the GV-Cloud Bridge encoder, GV-AS1620 (firmware V2.00 or later) can transmit the snapshots, live view, and playback recordings to GV-Cloud Access Control upon access events.

### Key Features

- One door IP controller (entry and exit)
- 3 types of interfaces, Wiegand, RS-485 and TCP/IP
- OSDP communication through RS-485
- 4 digital inputs for door contact, exit button, fire contact and tamper contact
- 4 relay outputs for lock, alarm, 2 LED for an access granted and access denied
- DC 12V, 3A / PoE+ (IEEE 802.3at)
- Stores up to 100,000 cards
- Suitable for door, parking lot and elevator controls
- GV-Cloud Access Control integration (firmware V2.00 or later)
- ONVIF (Profile C) conformant

### Specifications

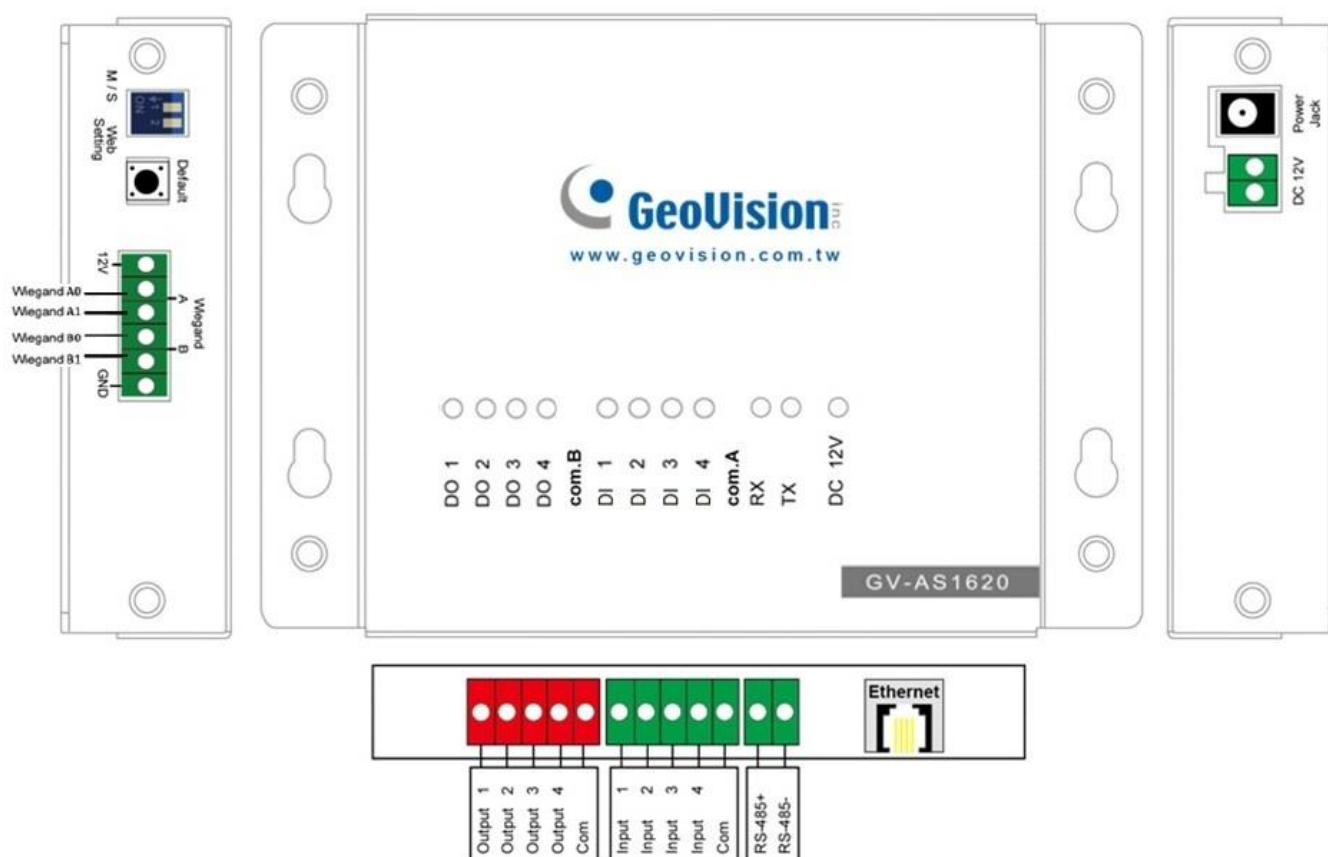
| System Requirements  |                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| GV-ASManager Version | V5.2.0 or later                                                                                                                           |
| GV-Cloud Version     | V1.0.0 or later                                                                                                                           |
| <b>Note:</b>         |                                                                                                                                           |
| 1.                   | GV-AS1620 firmware V1.XX or earlier is only for GV-ASManager applications.                                                                |
| 2.                   | GV-AS1620 firmware V2.00 or later is only for GV-Cloud applications.                                                                      |
| Hardware             |                                                                                                                                           |
| Number of User Cards | 100,000 cards                                                                                                                             |
| Event Buffer         | 65,535 events and log data                                                                                                                |
| Wiegand Interface    | 2 Wiegand interfaces, 26 ~ 64-bit format                                                                                                  |
| RS-485 Interface     | 1 RS-485 interface for max. 2 RS-485 / OSDP readers                                                                                       |
| TCP/IP Interface     | RJ-45, 10 / 100 Mbps                                                                                                                      |
|                      | 1 TCP/IP interface for max. 2 GV-Readers (GV-CR420 / GV-FR2020 / GV-CR1320 / GV-GF1921 / GV-GF1922; GV-FWC with GV-FD8700-FR / GV-VD8700) |

|                       |        |                                                               |
|-----------------------|--------|---------------------------------------------------------------|
| Digital I/O           | Input  | 4 inputs, Dry Contact, NO / NC                                |
|                       | Output | 4 relay outputs (DC 30V, 3A; 110V AC ~ 250V AC, 3A), NO / NC  |
| Power                 |        | 12V DC, 3A / PoE+ (IEEE 802.3at, provides up to 25.5W)        |
| Operating Temperature |        | 0°C ~ 65°C / 32°F ~ 149°F                                     |
| Operating Humidity    |        | 5% ~ 95% RH (Non-Condensing)                                  |
| Dimensions            |        | 111.4 x 27.5 x 101 mm / 4.39 x 1.08 x 3.98 in (case included) |
| Weight                |        | 235 g / 0.52 lb (case included)                               |
| Ingress Protection    |        | IP54                                                          |
| Certification         |        | CE, FCC, RoHS compliant                                       |
| Network               |        |                                                               |
| Interface             |        | 10/100 Ethernet                                               |
| Protocol              |        | DHCP, DynDNS, HTTPS, TCP, ONVIF (Profile C)                   |

**Note:**

1. For the RS-485 interface, connect just one of the following readers to GV-AS1620: GV RS-485 readers, OSDP compliant readers, and GV-QR1352/DES1352 readers.
2. Only GeoVision readers are supported by RS-485 and network communications, while Wiegand and OSDP are compatible with third-party readers.
3. All specifications are subject to change without notice.

## Overview



| Pin  | Definition                      | Pin  | Definition     | Pin        | Definition           |
|------|---------------------------------|------|----------------|------------|----------------------|
| DO 1 | Lock                            | DI 1 | Door Contact   | Wiegand A  | Entry Reader         |
| DO 2 | Alarm                           | DI 2 | Exit Button    | Wiegand B  | Exit Reader          |
| DO 3 | LED / Beeper for Access Granted | DI 3 | Fire Contact   | RS-485 +/- | RS-485 / OSDP Reader |
| DO 4 | LED / Beeper for Access Denied  | DI 4 | Tamper Contact |            |                      |

## Packing List

- GV-AS1620
- Warranty Card
- Download Guide

## Options

Optional devices can expand the capabilities and versatilities of your GV-AS1620. Consult your sales representative for more information.

|                                      |                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GV-AS ID Card / Key Fob & GV-UHF Tag | 125 KHz and 13.56 MHz cards / key fobs, 900 MHz UHF Tag are available.                                                                                                                                                                                                                                                  |
| GV-FWC                               | GV-FWC integrates GeoVision face-recognition-based cameras, software and readers into access control systems by sending access card data, paired to Face IDs, to controllers either through TCP/IP or Wiegand connection.                                                                                               |
| GV-IB25 / 65 / 85 Infrared Button    | The GV-IB25 / 65 / 85 Infrared Button detects infrared movement within 3 to 12 cm and allows you to open the door with a wave of hand.                                                                                                                                                                                  |
| GV-POE Switch                        | GV-POE Switch is designed to provide power along with network connection for IP devices. The GV-POE Switch is available in various models with different numbers and types of ports.                                                                                                                                    |
| GV-WTR                               | GV-WTR is a converter designed for converting Wiegand interface to RS-485 interface, and vice versa. It enables 3rd party readers to be connected to RS-485 GV-Controllers, as well as allowing GV-AI FR (software) and GV-RS1320 (RS-485 camera reader) to be connected to 3 <sup>rd</sup> -party Wiegand controllers. |
| Electric Lock                        | Three types of electric locks are available: electromagnetic lock, electric bolt and electric strike.                                                                                                                                                                                                                   |
| Power Adapter                        | Contact our sales representatives for the countries and areas supported.                                                                                                                                                                                                                                                |
| Push Button Switch                   | The push button switch can be integrated with any standard access control systems, allowing door exit by activating or deactivating the electric locking device. Both American standard and European standard push buttons are available.                                                                               |