

# 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 connected to IP cameras or through the GV-Cloud Bridge encoder, the GV-AS1620 (firmware V2.00 or later) can transmit snapshots, live view, or playback recordings (requires GV-Cloud Bridge) 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 (with GV-AS1620 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

### Note:

1. GV-AS1620 firmware V1.xx is only for GV-ASManager applications.
2. GV-AS1620 firmware V2.xx is only for GV-Cloud Access Control 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 12V DC power supply, 200 mA
RS-485 Interface	1 RS-485 interface for max. 2 RS-485 / OSDP readers RJ-45, 10 / 100 Mbps
TCP/IP Interface	1 TCP/IP interface for max. 2 GV-Readers (GV-FR2020 / GV-CR1320 / GV-GF1922; GV-FWC with GV-FD8700-FR / GV-VD8700) *GV-AS1620 supports simultaneous connection of an RS-485 reader and a network reader.

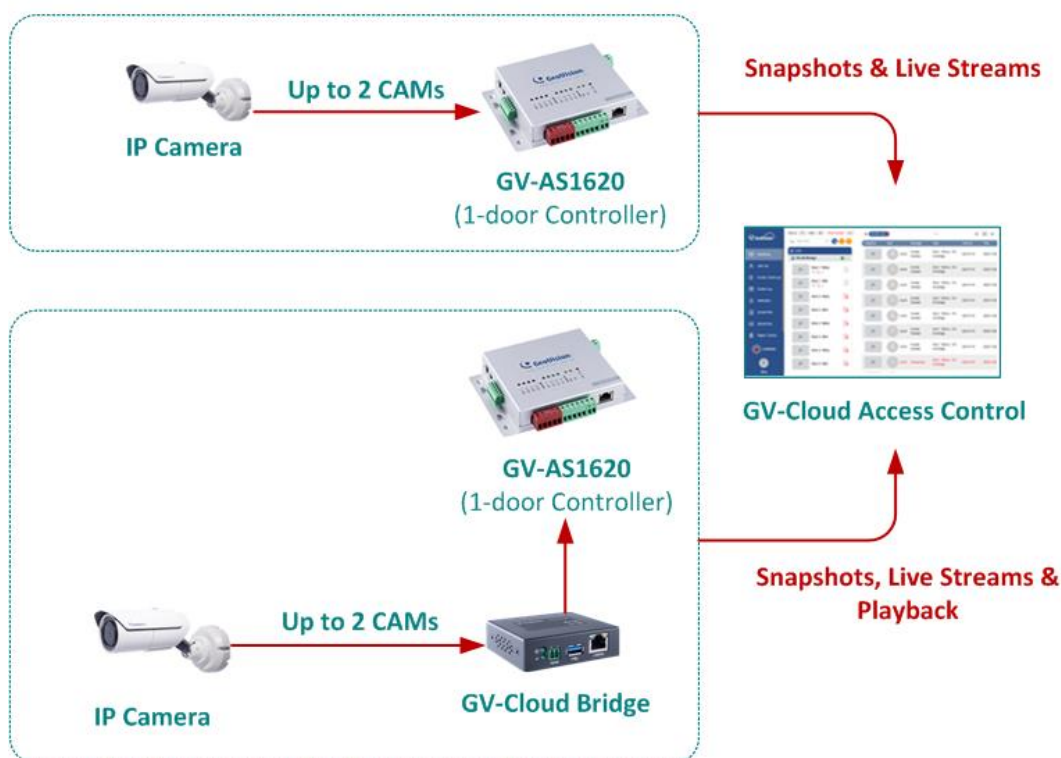
Digital I/O	Input	4 inputs, Dry Contact, NO / NC
	Output	4 relay outputs (DC 30V, 3A; 110V AC ~ 250V AC, 3A), NO / NC
Power		12V DC, 3A / PoE+ (IEEE 802.3at, provides up to 25.5W)
Operating Temperature		0°C ~ 65°C / 32°F ~ 149°F
Operating Humidity		5% ~ 95% RH (Non-Condensing)
Dimensions		111.4 x 27.5 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)
GV-Cloud Access Control integration		
Max. unit supported		GV-Cloud Bridge encoder (firmware V1.03 or later): 1 IP camera: 2

**Note:**

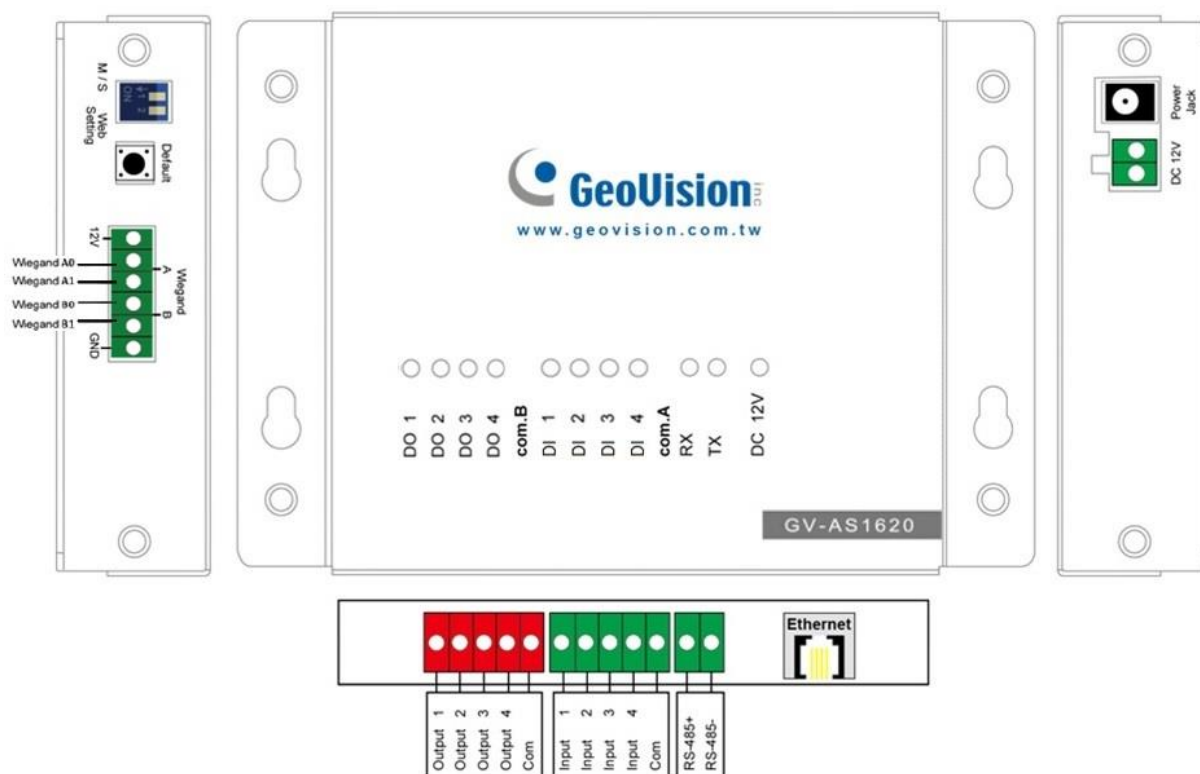
1. For the RS-485 interface, connect just one of the following readers to GV-AS1620: GV RS-485 readers, OSDP compliant readers, and GV-QR1352/DES1352 readers.
2. Only GeoVision readers are supported by RS-485 and network communications, while Wiegand and OSDP are compatible with third-party readers.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

## GV-Cloud Access Control Integration

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



## 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.