



## Matrix Subsystem Gateway

### Overview

The second generation Matrix Subsystem Gateway (MSG) provides a cost-effective solution to the ever-growing demand for network-capable Matrix devices in an access control system. Using the Matrix Frontier™ software and the MSG, several Matrix devices can be connected together to form a fully integrated network, providing security to the geographically distant parts of your organization.

The MSG includes a hot failover capability. The MSG will automatically re-route subsystem devices such as door controls and I/O modules devices to a secondary intelligent controller if the primary controller fails or becomes disconnected due to network issues. Hot failover enhances system reliability and redundancy in Matrix installations.

### An affordable way to secure even remote systems

Without an MSG, distance can be a limitation or cost-prohibitive factor ... securing remote or isolated locations would require purchasing a separate Matrix Building Controller. Installing the MSG at remote sites, however, is a cost-effective solution that enables connectivity to an existing Building Controller and efficient communication with other Matrix devices.

Since the MSG does not have the stand-alone memory and functionality the Building Controller has, it is not a replacement for the core Building Controller. However, when Ethernet connections are available, the MSG provides an affordable access control solution for Matrix customers needing to secure remote or isolated locations.

### A flexible and expandable solution for connecting your matrix devices

The MSG is compatible with the Matrix products in your current system, including Reader Control Modules, card readers, and MS-125 alarm cards. This gives you a proven and reliable way to build an integrated network — one that can grow with you, allowing up to eight Matrix devices to communicate with each other.



### Highlights

- Reduces capital expenditures in locations where a dedicated Building Controller is not required
- Easily and cost-effectively secures remote or isolated locations through the local or wide area network
- Provides hot failover to secondary intelligent control panel
- Expandable, allowing up to eight Matrix devices can be hooked together in flexible configurations
- Easy to set up and maintain — communication connections can be made via several convenient methods

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## A flexible and expandable solution for connecting your matrix devices *(continued)*

The MSG allows the linked Matrix devices to be accessed via a normal Ethernet 10/100 Base-T connection. The MSG establishes a TCP socket with the specified Matrix Building Controller, which, in turn, establishes contact with the devices attached to the MSG.

After all necessary device setup is finished and any archived data are retrieved by the Building Controller, the MSG manages the communications with the attached devices and only communicates with the Building Controller when necessary — eliminating excessive network communications. A minimal “heartbeat” is established between the MSG and the Building Controller to ensure constant valid communications between the two components.

## Simple, convenient setup

The MSG is easily configured and installed — multiple configuration methods are available, such as via Telnet or RS-232 serial connection, or by entering data through the keypad of an attached Matrix MX2 card reader.

All configuration data are stored in flash memory. The firmware for the MSG is also stored in flash memory and can be updated in the field using a simple cloning technique.

## Specifications

Physical	Dimensions for panel mount: 3" (76.2 mm) width x 5" (127 mm) height x 1.25" (31.75 mm) depth Dimensions for stand-alone desktop: 4" (101.6 mm) width x 5" (127 mm) height x 1.5" (38.1 mm) depth Weight: 3.2 oz (90.7 g)
Environmental	Temperature: -31° F (-35° C) to +150.8° F (66° C) Humidity: 0% to 95% (non-condensing)
Input voltage	12 VDC at 325 mA
Network interface	10Base-T and 100Base-T Ethernet, RJ45 connector
Configured via	Telnet, RS-232 serial port (J3), or programming port (J2) with standard MX2 card reader
Number of devices	8 addressable devices
Device interface	RS-485 – 4W
Device support	Matrix Reader Control Modules, Matrix card readers, and MS-125 alarm cards
Firmware	Stored in flash memory, field updatable by a cloning technique
Configuration data	Stored in flash memory
Frontier version	Compatible with Frontier version 5.5.2.4 or version 5.7.1.3 and greater
Warranty	One year



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