GE Security

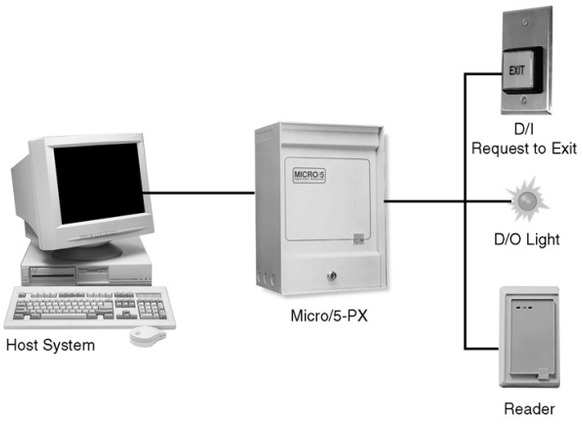
Product Data Sheet

Micro/5-PX

Microcontroller

Overview

The Micro/5-PX is a user configurable microcontroller for use with the full line of GE access control and alarm management software. The Micro/5-PX provides distributed processing for the interface of access control readers, keypads, alarm inputs and outputs back to a host system computer. Distributed processing allows each Micro/5-PX microcontroller to operate independent of the host system computer with the majority of access control and alarm monitoring decisions made locally at the microcontroller. The Micro/5-PX provides instant response for door control and alarm sensing in the field, while leaving the host system computer with more processing power for quickly executing daily operations such as alarm response, database updates and reporting.



Field Configurable

The Micro/5-PX has five card file slots for microcontroller options. All options plug into the microcontroller backplane making field configuration and maintenance easy and economical.

Up to 16 GE supervised readers, 80 supervised alarm points or 64 relay outputs can be configured into a Micro/5-PX. Note: Secure Perfect® version 3.x supports 16 badge readers per microcontroller, the same as Picture Perfect.

Flash Memory

The Micro/5-PX additionally incorporates "FLASH" memory technology that provides the ability to receive its operating system and application remotely from the host system over the already established communications path. This allows future firmware upgrades centrally from the host system without requiring costly service trips to each location for firmware replacement.

Both the expandable design and the "FLASH" memory technology of the Micro/5-PX provide a simple migration path when considering future host system upgrades.

Standard Features

- **Supports up to 16 readers**
- **Up to 80 supervised inputs**
- **Up to 64 digital outputs**
- **Uses Flash memory for remote firmware upgrades**
- **Supports up to 7 downstream microcontrollers with up to 64 readers per line**
- **Can support bi-directional serial communications to host (Picture Perfect only)**
- **Optional dial-up modem available**

Micro/5-PX

Microcontroller

Specifications

Dimensions	56 X 267 X 159 mm
Operating temperature	2 to 50°C
Relative humidity	5% to 95% non-condensing
Power supply	12 to 15 VDC, 3 to 5 A, battery backup optional
Communication	Host to Microcontroller, RS-232, 100 ft.
	Host to Microcontroller, RS-232 to RS-422 converter, 1,000 ft.
	Microcontroller to microcontroller, RS-422, 1,000 ft.
	Dial-up
Modem, external	Optional, field installed
Power dissipation	<50 W
Certifications	FCC Class A, UL 1076, UL 294, CE
Expansion Options: 5 Slots available	
2 reader processor board (2RP/2SRP)	4 max.
8 reader processor board (8RP)	2 max.
20 digital input board (20DI) supervision resistors included	4 max.
16 digital output board (16DO/16DOR)	4 max.
Storage capacities	
Secure Perfect badge capacity	100,000
Picture Perfect badge capacity	196,000
Picture Perfect - Alarm history	2,000
Picture Perfect - Badge history	5,000
SP Editions-General History	16,000
Power Requirements (door strike separate):	
3 A	8 reader, all technologies; 16 reader, non proximity
5 A	16 reader, 9XX proximity; 2 ea. 16 DO/DOR per M/5-PX
Configuration	
Picture Perfect	Version 1.5 or higher is required in order to configure another microcontroller downstream from a Micro/5-PX dial-up
Secure Perfect	Version 3.x or higher is required when configured with a Micro/5-PX

Ordering Information

Part No.	Description
PM814	Boxed power supply, 12VDC 4A
PM812	Boxed power supply, 12VDC 2A

Flexible Configuration

Up to seven microcontrollers can de downstream from a Micro/5-PX. Each group of eight microcontrollers will support up to 64 badge readers.

Product Content

The standard Micro/5-PX includes an all-steel cabinet with key lock and tamper-switch-protected door. The microcontroller is available without a cabinet when installation into an existing equipment cabinet is required.

Notes

- Picture Perfect: The Micro/5-PX Flash Memory can not be updated from the system server if a Micro/4 is upstream from the Micro/5

- Picture Perfect: Micro/2s, Micro/4s, Micro/5-Ps and Micro/5-PXs can be configured downstream from both direct connect and dial-up microcontrollers

- Picture Perfect: Bi-directional communication from the end-of-line Micro/5-PX to the system server ensures all microcontrollers maintain a communication path to the system server should the line of microcontroller's communication path be broken. The shift to bi-directional communication is automatic. Bi-directional communication is not available with Secure Perfect Editions.

- Secure Perfect: A server-connected Micro/5-PX supports both direct connect and dial-up operation