



by Honeywell

INI-VG Series

Description

The INI-VG Series (Intelligent Network Interface-Voice Gateway) is a network interface with Audio and Command/Control features. The series provides Recorded Message Storage and connects to the following components:

- one Microphone
- one SLC circuit
- Fire Fighter telephones
- one NGA

The INI-VG Series, that consists of the INI-VGC, INI-VGX and INI-VGE, are used in the following E3 Series and S3 Series Systems.

- E3 Series® Expandable Emergency Evacuation System
- E3 Series Combined Fire and Mass Notification System
- E3 Series Broadband Audio Evacuation System
- E3 Series Classic Bulk Audio Evacuation System
- S3 Series (Small Addressable FACP) System

INI-VGC

The INI-VGC Voice Gateway Module is optimized to provide command and control functions for the INCC Command Center. The INCC serves as the point of interface between an operator and the system's audio evacuation, fire fighter intercom, and building control circuits.

A typical INCC assembly consists of an Intelligent Network Interface-Voice Gateway (INI-VGC) Module and one or more Addressable Switch Modules (ASM-16). Each INI-VGC can support up to 16 ANU-48 LED Driver Modules or ASM-16s for a total of 256 fully programmable switches and 768 LEDs that light in red, yellow, and green.

The INI-VGC occupies a single node on the E3 Broadband network and it is connected by a single pair of twisted, unshielded wire, fiber-optic cable or any combination of the two. The INI-VGC-UTP is not equipped with fiber-optic connectors. The INCC Command Center's INI-VGC module also provides connections for an optional emergency voice page microphone and a fire fighter telephone handset.

The INI-VGC is a fully digital voice/tone generator using state-of-the-art Digital Signal Processing (DSP) technology to produce the clearest, most audible signal possible. The INI-VGC provides an output to a local speaker for message verification and testing.

The E3 Broadband Audio Evacuation System is a peer-to-peer, self regenerating, token ring network comprised of up to 64 individual nodes. In addition, the Addressable Node Expander (ANX) board expands the network to 122 nodes. Each E3 Broadband node can be spaced on the network at a maximum distance of 3,000 feet (914.4 m) or up to an 8dB loss using fiber-optic cable. Built-in isolation at each node supports Style 4, 6, and 7 network configurations.

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INI-VG Series Command Center Voice Gateway



INI-VG Series

Features

The INI-VG Series include the following features:

- Listed under UL® Standard 864, 9th Edition.
- Listed under UL Standard UL2572 for Mass Notification.
- All communication signals and control-by-event sequences over twisted, unshielded pair of wires or fiber-optic cable.
- Distributed architecture, including Style 7 wiring configuration, allows system components to continue normal operation with NO loss of function during single line fault conditions.
- Each INI-VGC supports up to sixteen ANU-48 LED drivers or ASM-16 switch modules for a total of 256 switches.
- Each INI-VGX or INI-VGE supports up to six ANU-48 LED drivers or ASM-16 switch modules for a total of 96 switches.
- All INI-VG Series Modules connect to a voice page microphone and fire fighter's handset.
- Redundant command centers with microphone and fire fighter's handset easily configured by adding INCCs.
- Uses advanced digital signal processor (DSP) technology for efficient audio compression and filtering.
- Network data transfer rate at 625K baud.
- The INI-VGX includes the following features:
 - Software-programmable multi-channel digital audio applications.
 - One Style 4 Signaling Line Circuit (SLC) supporting up to 32 addressable speaker circuits.
 - AOM-2SF used for single channel and 16 addressable phone circuits (AOM-TELF).
 - Supports up to 150 watts of audio power (using the AM-50 Series amplifiers operating at 50 watts of power @ either 25V_{RMS} or 70.7V_{RMS} output) installed in a single, wall-mounted cabinet.
 - 16 message capacity with up to 3 minute duration per INX and messages are easily field-configured via a laptop computer.

SIGNALING



S1869



3006578



COA-#6077



City of Chicago Approved Class1 Class2 High Rise

City of DENVER Approved



GAMEWELL-FCI

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9020-0648 Rev. H page 1 of 2

Description (Continued)

INI-VGE

The INI-VGE Voice Gateway Module provides an audio interface to Bulk Amplifiers along with command and control functions for the INCC Command Center. A typical INCC assembly consists of an Intelligent Network Interface-Voice Gateway (INI-VGE) Module and one or more Addressable Switch Modules (ASM-16). Each INI-VGE can support up to six ASM-16s for a total of 96 fully programmable switches and 288 LEDs. The LEDs light in red, yellow, and green.

The INI-VGE occupies a single node on the E3 Series Classic network and is connected by a single pair of twisted, unshielded wire, fiber-optic cable or any combination of the two. The INI-VGE-UTP is not equipped with the fiber-optic connectors. The INCC Command Center's INI-VGE module also provides connections for an optional emergency voice paging microphone as well as a fire fighter telephone handset. The INI-VGE's one Signaling Line Circuit (SLC) loop supports 16 remote Fire Fighter Phones and 32 Supervised Audio Control Relays.

The INI-VGE is a fully digital voice/tone generator using state-of-the-art Digital Signal Processing (DSP) technology to produce the clearest, most audible signal possible. The INI-VGE provides an output capable of driving up to 20 Model AA-100 or AA-120 amplifiers.

INI-VGX

The INI-VGX Transponder Voice Gateway is a component of the E3 Broadband Audio Evacuation System and an optional component of the E3 Series Expandable Emergency Evacuation System. It is a multi-function module that incorporates:

- Network interface using twisted, unshielded wire or fiber-optic cable
- Fully digital message generator
- One SLC loop supports 16 remote fire fighter phones and 32 supervised Audio Control Relays
- Local fire fighter phone riser

It occupies a single DIP switch selectable address on the network and provides termination points for the network connection using either a pair of twisted, non-shielded wire (12 AWG max.) fiber-optic cable, or a combination of the two. The INI-VGX-UTP is not equipped with fiber-optic connectors.

The INI-VGX provides command and control for up to four AM-50 Series amplifiers, operating at 50 watts of power @ either 25V_{RMS} or 70.7V_{RMS} audio output (up to 150 W of audio may be delivered at any given time). The amplifiers are installed in a single cabinet. The INI-VGX uses advanced Digital Signal Processing (DSP) technology for audio compression and filtering. This feature allows the E3 Series Broadband System to produce superior clarity for intelligible LIVE voice paging. The background noise is automatically filtered during voice paging and fire fighter communications which increases the audibility and eliminates the need for Push-to-Talk devices.

Specifications

INI-VGC, INI-VGE and INI-VGX

Operating Voltage: 24 VDC (nominal) from the PM-9/PM-9G Power Supply

Operating Current: 0.150 amp. supervisory and alarm
Operating

Temperature: 32° to 120° F (0 to 49° C)

Relative Humidity: 0 to 93% (non-condensing)

Supervised

Class 2 Power-Limited

Protocol: Asynchronous with half-duplex data flow

Wiring Specifications

(INI-VG Series & INI-VG-UTP Series):

Copper Wire: 16 to 18 AWG twisted-pair, unshielded. Up to 3,000 ft. (914.4 m) between each node.

(INI-VG Series):

Fiber-Optic Cable Up to 200 microns (optimized for 62.5/125 microns). Up to 8 dB loss between each node.

Ordering Information

Part Number	Description
INI-VG Series:	
INI-VGC	
INI-VGC	Command center voice gateway
INI-VGC-UTP	Command center (unshielded twisted-pair only)
INI-VGE	
INI-VGE	Command center classic voice gateway
INI-VGE-UTP	Command center (unshielded twisted-pair only)
INI-VGX	
INI-VGX	Transponder voice gateway
INI-VGX-UTP	Transponder voice gateway (unshielded twisted-pair)

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