

Description

The INI-VG Series includes the following sub-assemblies that are components of the E3 Broadband Audio Evacuation System and optional components of the E3 Series® Expandable Emergency Evacuation System:

- INI-VGC
- INI-VGE
- INI-VGX

INI-VGC

The INI-VGC Voice Gateway Module provides 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 sixteen (16), ANU-48 LED Driver Modules or ASM-16s for a total of 256 fully programmable switches and 768 LEDs (red, yellow, and green).

The INI-VGC occupies a single node on the E3 Broadband network and 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 as well as 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. 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 permits 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
- 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 or INI-VGE supports up to sixteen (16), ANU-48 LED drivers or ASM-16 switch modules for a total of 256 switches
- INI-VGC connects 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
- 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 thirty-two (32), addressable speaker circuits
- AOM-2SF used for single channel) and sixteen (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

An ISO 9001-2000 Company



GAMEWELL-FCI

12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118

Specifications are for information only, are not intended for installation purposes, and are subject to change without notice. No responsibility is assumed by Gamewell-FCI for their use.

Description (Continued)

INI-VGE

The INI-VGE Voice Gateway Module provides command and control functions for the INCC Command Center. It provides bulk amplification. 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 (6), ASM-16s for a total of 96 fully programmable switches and 288 LEDs (red, yellow, and green).

The INI-VGE occupies a single node on the E3 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 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 (1) signaling line circuit for local peripheral devices
- 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 (4), AM-50 Series amplifiers, operating at 50 watts of power @ either 25V_{RMS} or 70.7V_{RMS} audio output. 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 Broadband 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
Power-Limited**

Protocol: Asynchronous with half-duplex data flow

Speed: RS-232 up to 64 KBps
RS-485 up to 128 KBps

St connectors*: Up to 200 microns (multi mode),
Optimized for 62.5/125 microns

*St Connectors are omitted on the INI-VG-UTP Series.

*Model INI-VGC only

Ordering Information

Part Number	Description
INI-VG Series:	
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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