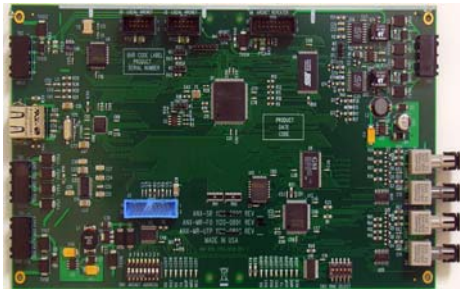
ANX

Addressable Node Expander

The ANX is a networking interface board used to expand the networking capabilities of the E3 Series® System.



ANX

GENERAL

The Gamewell-FCI, Addressable Node Expander (ANX) is a networking interface board that is used to expand the overall E3 Series® capabilities in the system node count, FocalPoint® integration and Ethernet connectivity. This powerful interface provides superior data exchange between the following units:

- E3 Series Fire Alarm Control Panel
- S3 Series Fire Alarm Control Panel
- FocalPoint Graphical Workstation
- Installer's PC

The ANX allows the E3 Series and S3 Series Networks to expand to two rings. Each ring contains up to 61 nodes, not including the ANX. By bridging the two networks together, each of the E3 and S3 network node counts are increased to 122 nodes. The multi-ring network expansion can activate outputs on any node on the bridged networks including the Control-by-Event functions originating from a connected network (See Figure 1-Shared Ring Capability). Audio paging and voice messages are also transferred over the two networks through the ANX.

The use of the ANX's Ethernet port allows the communication between the E3 Series System, the FocalPoint Gateways and Workstations through the TCP/IP. From the FocalPoint Workstation, you can activate "virtual switches" in the ANX for CAM control and status monitoring which might include bypass, control switching, voice evacuation notification or any auxiliary control function.

Installers can use the ANX's Ethernet port for high-speed configuration downloading into either of the E3 Series or S3 Series rings, saving time rather than using the typical RS-232 connections. The ANX can also be used as a downloading gateway for commissioning and is not required to be a part of the system.

FEATURES AND BENEFITS

- Complies with UL® Standard 864 (10th Edition)
- Expands the E3 and S3 Networks to two rings, containing 122 nodes allowing a multi-ring network expansion
- Provides expanded data exchanges between the E3 network and the FocalPoint Graphic Workstation
- Includes high-speed configuration downloading through the ANX Ethernet port
- Installed in the standard E3 Series cabinet enclosures
- Bridges two of either the E3 Series or S3 Series Networks to activate outputs on any node on bridged networks
- Offers shared ring capability

FocalPoint Features:

- Displays device descriptions for points on events only
- Shows a single icon per SLC device
- Provides up to 512 Virtual Points for programmable control and status monitoring within FocalPoint for: System control switch (Enable/Disable, Bypass)
- Voice evacuation speaker circuit control switch
- Auxiliary control circuit switch
- Provides Ethernet connectivity to allow a high speed
- Includes additional point information to the end user.supervised connection to the FocalPoint Gateway
- Allows the user to send the following commands over the E3 Network
  - Acknowledge
  - Enable/Disable
  - Reset
  - Silence
- Shows the current status on the E3 and S3 networks
- Sends the time to the E3 and S3 networks

Honeywell

Gamewell FCI

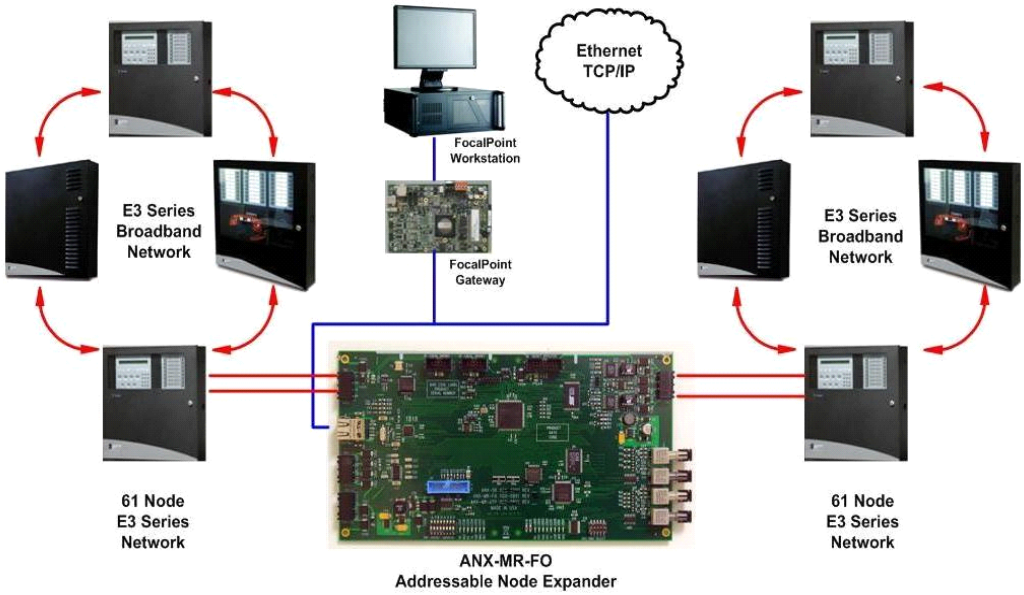


Figure 1: Addressable Node Expander Connection in a Multi-Ring Network Expansion Configuration

General (Continued)

The ANX expands the operation of the E3 Series network, so that it can support both Mass Notification and Emergency Communication System applications used in the following building complexes.

- campuses
- hospitals
- large industrial or manufacturing facilities
- high-rise & multi-building complexes

The ANX sub-assembly provides Ethernet connectivity via an Ethernet port.

- Addressable Node Expander - Multi-Ring Fiber Optic (ANX-MR-FO) contains the following:
  - primary network interface for multi-ring communication.
  - a fiber-optic (FO) connectivity on the secondary network connection.

Ethernet

The Addressable Node Expander uses TCP/IP and incorporates heavy PPL/PSL/ re-use of the mainstream components. The ANX sub-assembly can provide Ethernet connectivity via an Ethernet port. This Ethernet port offers an enhanced network interface between the E3 Series and S3 Series fire alarm control panel and the FocalPoint Graphic Workstation. This feature improves the communication to monitor the alarm supervisory and trouble conditions of the FocalPoint Graphic Workstation. The E3 Series configuration data can be loaded into the network nodes via the ANX Ethernet port and CAMWorks™.

A Download program utility is provided to extract data (excluding the CAMs and voice files on the INI-VG Series) into a job file that allows the ANX to extract all point information in existing panels. The following list the information that can be retrieved from the ANX.

- Custom labels programmed to identify each point.
- System information that details the configuration of analog addressable monitor and control points
- Information stored in the CAMWorks job file.
- Compare feature to display configuration differences.
- Converts low level CAMs into corresponding high-level CAMs during the download of the CAMWorks configuration data for the following node types:
  - ILI-MB-E3
  - ILI-S-E3
  - SLP
  - ILI95-MB-E3
  - ILI95-S-E3
  - ANX
  - NGA

ORDERING INFORMATION

ANX-MR-FO: Addressable Node Expander-Multi-Ring Fiber Optic

ANX TECHNICAL SPECIFICATIONS

SYSTEMS

Operating Voltage: 24 VDC (from the PM-9/ PM-9G power supply)

Operating/Supervisory Current: 0.066 amp

Alarm Current: 0.066 amp

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

Relative Humidity: 0 to 93%, non-condensing at 90° F (32° C)

Supervised

Wiring Specifications:

ANX-MR-FO only:

Copper Wire: 16 to 18 AWG twisted-pair, unshielded.

Up to 3,000 feet (914.4 m) between each node.

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

TEMPERATURE AND HUMIDITY RANGES

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

STANDARDS

The ANX is designed to comply with the following standard.

UL Standard: UL 864, 10th Edition

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult the factory for the latest listing status.

UL Listed: S1869
UL 864, 10th Edition

MEA Approved: 6175

FM Approved: 3025415

CSFM: 7165-1703-0125

Fire Dept. of New York: COA# 6077

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Country of origin: U.S.A.

Honeywell Gamewell-FCI
12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.gamewell-fci.com

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