

# INTREPID™ POE SYSTEM CONTROLLERS

IP-BASED POWER OVER ETHERNET (POE) PERIMETER CONTROL OPTIONS



INTREPID™ POE System Controllers provide flexible perimeter security management options for Southwest Microwave's IP-based POE detection technologies, enabling the development of an alarm monitoring and control program to suit a facility's unique requirements. INTREPID™ POE Controllers offer scalable, plug-and-deploy solutions to manage sites of any size or configuration, with features ranging from local or remote relay control to centralized TCP/IP-based management of large or multi-site applications.

INTREPID™ POE Controllers conveniently and reliably manage INTREPID™ POE perimeter detection sensors, including MicroPoint™-POE-S Fence Detection System, Model 316-POE-S (CE), Model 334-POE-S and Model 336-POE-S Digital Microwave Links plus Model 390 and Model 395 Advanced Digital Microwave Transceivers. These controllers enable the assignment of alarm inputs to specific perimeter zones. Zones may be visually depicted on a graphic user interface (GUI) and / or trigger outputs such as relay closures and camera PTZ presets so that when a perimeter breach is detected, precise visual assessment is achieved.

INTREPID™ POE Controllers seamlessly integrate INTREPID™ POE devices via TCP/IP network communications protocol using a standard Ethernet connection. Control modules also manage auxiliary security devices and interface with assessment equipment (CCTV / NVR) or other system outputs.

An INTREPID™ POE Software Development Kit (SDK) is available to developers at no cost for high-level interface of INTREPID™ POE sensors into custom monitoring and control applications.

Contact us at [infosd@southwestmicrowave.com](mailto:infosd@southwestmicrowave.com) or +1 (480) 783-0201 for further information or to request INTREPID™ SDK documentation.



**Perimeter Security Manager II (PSM II)**



**Graphic Alarm Manager (GAM)**



**Control Module-POE-S**



**INTREPID™ POE Software Development Kit (SDK)**

**PERIMETER SECURITY MANAGER II (PSM II)**

Perimeter Security Manager II (PSM II) is an advanced, Windows®-based security monitoring and control application that provides powerful intrusion detection system management capabilities and ease of use. The system is ideal for users seeking to manage numerous perimeter security devices across single or multiple networked locations.

PSM II monitors, displays and controls Southwest Microwave's range of intelligent perimeter detection systems, including INTREPID™ Series II and POE sensors. The system also seamlessly manages contact-closure auxiliary security devices.

**KEY FEATURES**

- INTUITIVE, ICON-BASED GUI WITH OPTIONAL TOUCH-SCREEN CONTROLS
- SECURE, 256-BIT AES ENCRYPTION AND TRANSPORT LAYER SECURITY (TLS)
- FLEXIBLE DISPLAY OF HIGH-RESOLUTION GRAPHIC MAPS
- PATENTED MIGRATING 3+ REDUNDANCY
- CUSTOMIZABLE SCREENS AND EVENT-HANDLING PROCESSES
- EASY SITE NAVIGATION VIA CUSTOMIZABLE 'PORTALS'

**GRAPHIC ALARM MANAGER (GAM)**

INTREPID™ Graphic Alarm Manager (GAM) is a dedicated Windows®-based system controller designed to provide GUI-based alarm monitoring and control of INTREPID™ Series II and POE-S intrusion detection systems. The system also supervises contact closure auxiliary security devices, and CCTV equipment via relays or output commands.

GAM application software provides robust system configuration and management. The platform features a user-friendly GUI that enables system operators to efficiently manage a facility's perimeter security program by incorporating a high-resolution graphic site map to display detection zones and active icons representing each device's assignable alarm points.

**KEY FEATURES**

- ECONOMICAL, ONE-TIME LICENSING FEE PER PC
- INTUITIVE GRAPHICAL USER INTERFACE (GUI)
- TRANSPARENT ICONS FOR OPTIMIZED MAP LAYOUT
- GUIDED NAVIGATION FOR EASY SET-UP AND PROGRAMMING
- 256 USER ACCOUNTS, 1024 ZONE RECORDS
- MONITORING OF UP TO 32 DEVICES
- LOCAL OR REMOTE ADMINISTRATION
- SUPPORT OF MULTIPLE LANGUAGES

**CONTROL MODULE-POE-S (CM-POE-S)**

The CM-POE-S is a System Controller designed to provide midsized facilities with robust local or remote control of INTREPID™ POE sensors, contact-closure auxiliary security devices and CCTV monitoring equipment. It features intuitive, software-based system configuration, zone assignment and management. The CM-POE-S features built-in POE and TCP/IP network communications for local or remote sensor configuration and alarm monitoring.

The CM-POE-S functions as Pollmaster, polling all INTREPID™ POE devices discovered on its network for status. When an intrusion attempt is detected from any INTREPID™ device or auxiliary input, a command is issued to the appropriate local relay output(s).

**KEY FEATURES**

- IP-BASED WITH BUILT-IN POE
- FULLY HARDENED DESIGN
- INTUITIVE ON-BOARD SET-UP SOFTWARE
- BUILT-IN WEB SERVER
- 16 ON-BOARD RELAYS TO DELIVER CRITICAL MESSAGES
- CONNECTS UP TO 32 INTREPID™ DEVICES
- SUPPORTS 128 ZONES (4IN / 4OUT)
- LOCAL OR REMOTE ADMINISTRATION AND ALARM MONITORING
- EVENT LOG & CONFIGURATION REPORTS

**INTREPID™ POE SOFTWARE DEVELOPMENT KIT (SDK)**

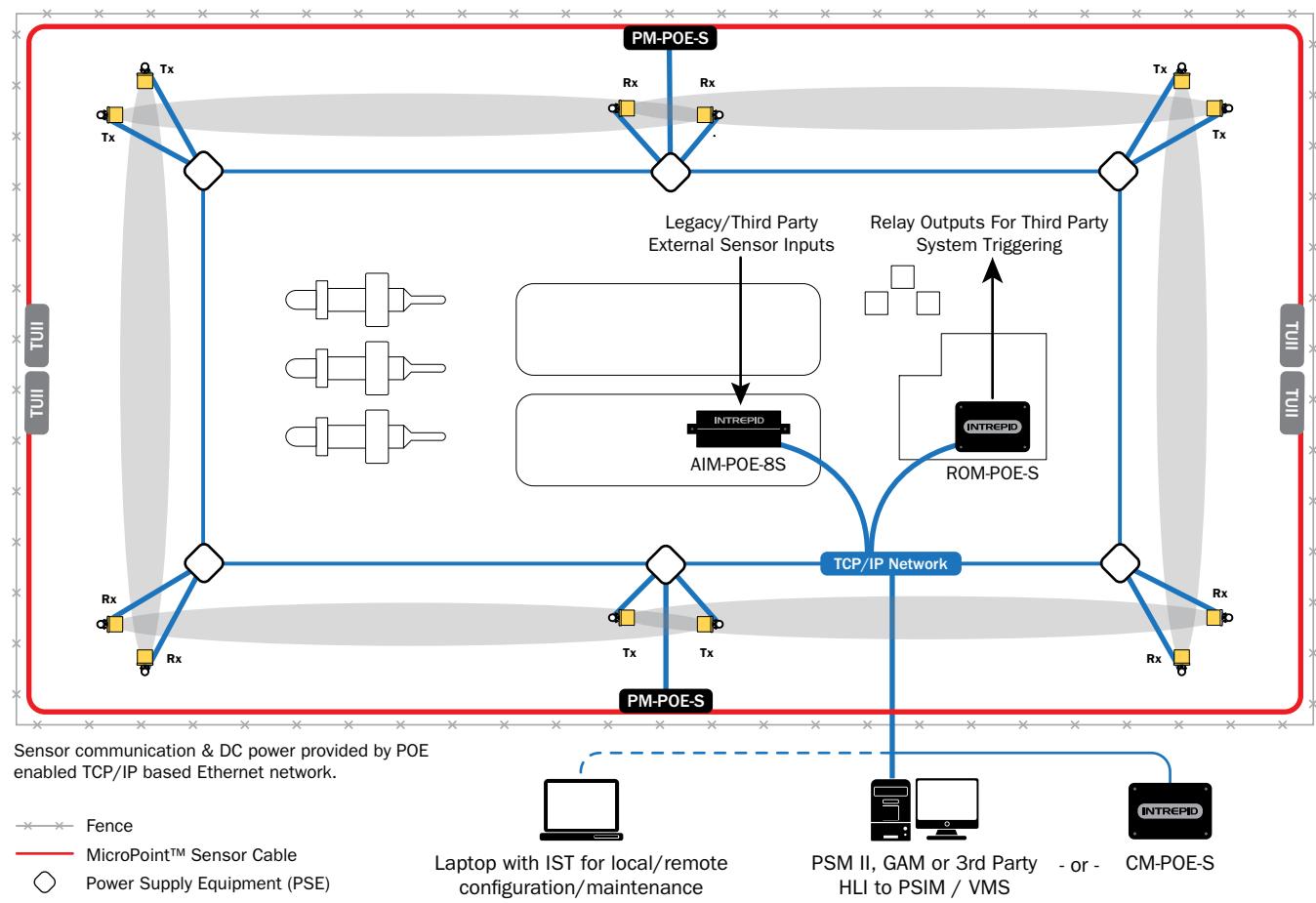
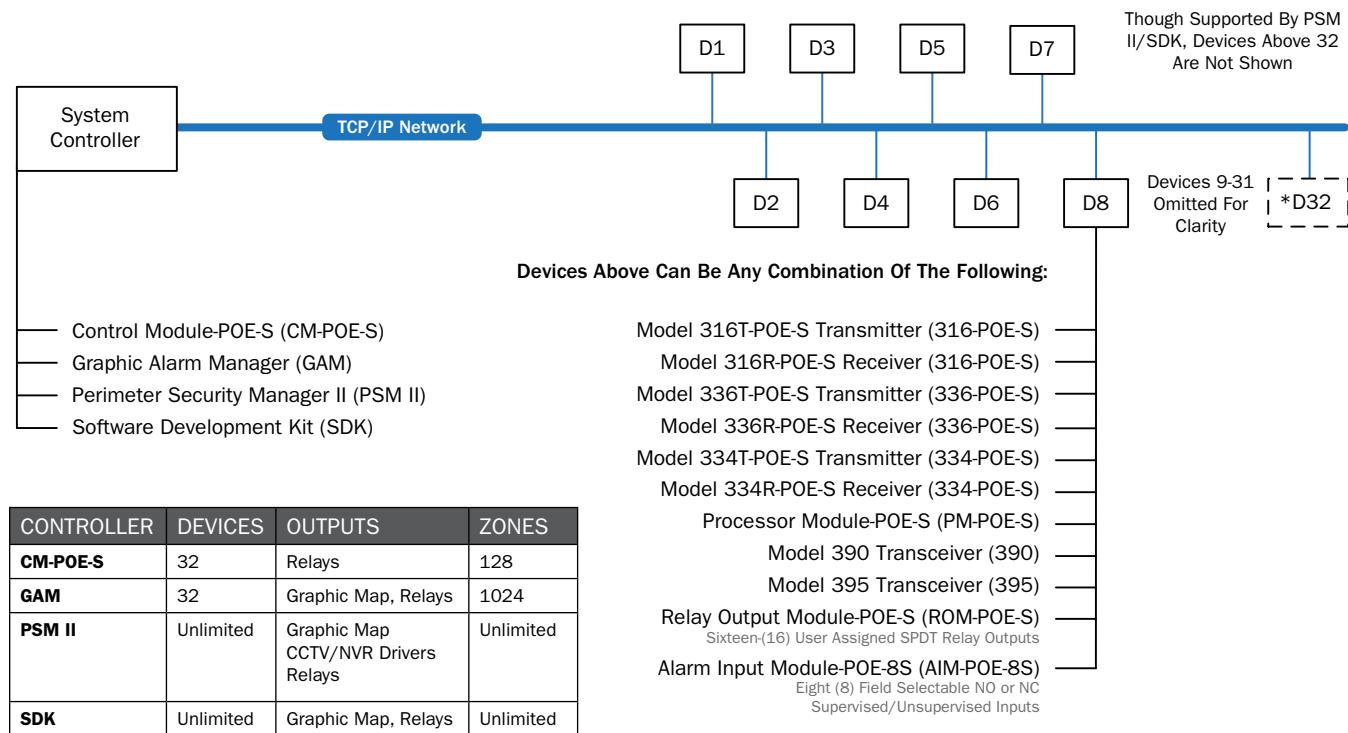
Software Development Kit (SDK) is available at no-cost to developers for high-level integration between INTREPID™ POE detection sensors and custom monitoring and control applications. This flexible control option enables interface between a user's preferred VMS or PSIM application and INTREPID™ POE sensors and auxiliary devices.



# INTREPID™ POE SYSTEM CONTROLLERS

## POE SENSOR CONTROLLER AND DEVICE CONFIGURATION

Each INTREPID™ POE Sensor Controller can communicate with any combination of INTREPID™ POE devices via an open-architecture TCP/IP network communications protocol.



# INTREPID™ POE SYSTEM CONTROLLERS SPECIFICATIONS

## PERIMETER SECURITY MANAGER II (PSM II)

Refer to *Perimeter Security Manager II* data sheet for complete product details and specifications.

## GRAPHIC ALARM MANAGER (GAM)

Refer to *Graphic Alarm Manager* data sheet for complete product details and specifications.

## POE SOFTWARE DEVELOPMENT KIT (SDK)

**INTREPID POE Communications:** Refer to Southwest Microwave SDK Data Sheet for complete POE sensor integration details. Refer to *POE Communications Development Document #57A47169-A01* for Specifications.

## CONTROL MODULE-POE-S (CM-POE-S)

**Size:** 218 H x 333 W x 108 D mm (8.59 x 13.11 x 4.26 in)

**Weight:** 1.1 kg (2.5 lbs)

**Operating Temperature:** -40° C to 70° C (-40° F to 158° F)

**POE:** Power over Ethernet, IEEE 802.3af, Class 0

**Power Requirements:** 2.2 Watts typical

**Ethernet:** RJ-45 connector, 10/100 Base-T

**Outputs:** 16 fully sealed relays, SPDT (Form 1C). Conforms to FCC Part 68 requirements for coil to contacts (1,500 V, 10 x 160 µs)

**Supported Browsers:** Internet Explorer 11, Edge 40, Firefox 54, Chrome 59 or higher.

**Security Protocol:** TLS 1.2, supports X.509v3 Public Key Infrastructure Certificates

**M2M Communications:**

- Protocol: IPP over TCP, 2 connections

- SDK available

**LED Indicators:** Relay outputs

**Languages:** English

**Enclosure Rating:** IP66

## INTREPID™ POE INPUT / OUTPUT MODULES

The INTREPID™ Alarm Input Module-POE-8S (AIM-POE-8S) and Relay Output Module-POE-S (ROM-POE-S) are self-contained fully-hardened modules that provide simple interface to contact-closure controlled alarm inputs or relay outputs that do not communicate using the INTREPID™ POE communications protocol. Each module features user-friendly on-board set-up software.

**Alarm Input Module-POE-8S (AIM-POE-8S):** Allows the incorporation of auxiliary devices – such as Southwest Microwave's conventional digital or analog microwave sensors, gate and door contacts or other alarm contacts. Provides 8 supervised contact-closure inputs.\*

**Relay Output Module-POE-S (ROM-POE-S):** Provides simple local interface to CCTV equipment, legacy alarm panels, perimeter lighting or other relays. Provides 16 relay outputs.\*

\* An INTREPID™ POE System Controller such as CM-POE-S or PSM II is required to configure the inputs / outputs of the AIM-POE-8S and ROM-POE-S.

### ALARM INPUT MODULE-POE-8S (AIM-POE-8S)

**Size:** 140 H x 343 W x 127 D mm (5.5 x 13 x 5 in)

**Weight:** 1.1 kg (2.5 lbs)

**Operating Temperature:** -40° C to 70° C (-40° F to 158° F)

**POE:** Power over Ethernet, IEEE 802.3af, Class 0

**Power Requirements:** 2.2 Watts typical

**Ethernet:** RJ-45 connector, 10/100 Base-T

**Inputs:** 8 field selectable NO or NC supervised / unsupervised inputs

**DC Output:** 12.0VDC, 400mA

**Supported Browsers:** Internet Explorer 11, Edge 40, Firefox 54, Chrome 59 or higher.

**Security Protocol:** TLS 1.2, supports X.509v3 Public Key Infrastructure Certificates

**M2M Communications:**

- Protocol: IPP over TCP, 2 connections

- SDK available

**LED Indicators:** Communication status, alarm, pulse

**Languages:** English

**Enclosure Rating:** IP66

### RELAY OUTPUT MODULE-POE-S (ROM-POE-S)

**Size:** 218 H x 333 W x 108 D mm (8.59 x 13.11 x 4.25 in)

**Weight:** 1.1 kg (2.5 lbs)

**Operating Temperature:** -40° C to 70° C (-40° F to 158° F)

**POE:** Power over Ethernet, IEEE 802.3af, Class 0

**Power Requirements:** 2.2 Watts typical

**Ethernet:** RJ-45 connector, 10/100 Base-T

**Outputs:** 16 fully sealed relays, SPDT (Form 1C). Conforms to FCC Part 68 requirements for coil to contacts (1,500 V, 10 x 160 µs)

**Supported Browsers:** Internet Explorer 11, Edge 40, Firefox 54, Chrome 59 or higher.

**Security Protocol:** TLS 1.2, supports X.509v3 Public Key Infrastructure Certificates

**M2M Communications:**

- Protocol: IPP over TCP, 2 connections

- SDK available

**LED Indicators:** Relay outputs

**Languages:** English

**Enclosure Rating:** IP66



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**USA (CORPORATE HEADQUARTERS):** Southwest Microwave, Inc., Arizona, USA | Telephone +1 (480) 783-0201

**EUROPEAN OFFICES:** Southwest Microwave Ltd., Worcestershire, UK | Telephone +44 1386 75 15 11