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 Model 316-POE (CE), Model 334-POE-S and Model 336-POE Digital Microwave Links and MicroPoint™-POE-S Fence Detection System. 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 info@southwestmicrowave.com or +1 (480) 783-0201 for further information or to request INTREPID™ SDK documentation.
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 is supplied as a self-contained module and 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).

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.

The INTREPID™ Polling Protocol II (IPP II) standard, developed by Southwest Microwave, Inc., is an application layer protocol using packet/frame format that provides Master/Slave communications between third party control equipment and INTREPID™ POE sensors over an IP network.

Refer to Southwest Microwave’s POE SDK development document for integration capabilities and development details.
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.

<table>
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<th>CONTROLLER</th>
<th>DEVICES</th>
<th>OUTPUTS</th>
<th>ZONES</th>
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<td>* CM-POE-S</td>
<td>32</td>
<td>Relays</td>
<td>128</td>
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<tr>
<td>PSM II</td>
<td>Unlimited</td>
<td>Graphic Map</td>
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<td>CCTV/NVR Drivers</td>
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<tr>
<td>SDK</td>
<td>Unlimited</td>
<td>Graphic Map</td>
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<tr>
<td></td>
<td></td>
<td>Relays</td>
<td></td>
</tr>
</tbody>
</table>

Though Supported By PSM II/SDK, Devices Above 32 Are Not Shown

Devices Above Can Be Any Combination Of The Following:

- Model 316T-POE Transmitter (316-POE)
- Model 316R-POE Receiver (316-POE)
- Model 336T-POE Transmitter (336-POE)
- Model 336R-POE Receiver (336-POE)
- Model 334T-POE-S Transmitter (334-POE-S)
- Model 334R-POE-S Receiver (334-POE-S)
- Processor Module-POE-S (PM-POE-S)
- Relay Output Module-POE-S (ROM-POE-S)
- Sixteen-(16) User Assigned SPDT Relay Outputs
- Alarm Input Module-POE-8S (AIM-POE-8S)

Light (8) Field Selectable NO or NC Supervised/Unsupervised Inputs

* CM-POE-S supports a maximum of thirty-two-(32) devices and 128 Zones (4in/4out).

Sensor communication & DC power provided by POE enabled TCP/IP based Ethernet network.

- Fence
- MicroPoint™ Sensor Cable
- Power Supply Equipment (PSE)
- Laptop with IST for local/remote configuration/maintenance
- PSM II or 3rd Party HLI to PSIM / VMS
- or -
**INTREPID™ POE SYSTEM CONTROLLERS SPECIFICATIONS**

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

Refer to Perimeter Security Manager II data sheet for Specifications.

**POE SOFTWARE DEVELOPMENT KIT (SDK)**

**INTREPID™ POE Communications:** Refer to Southwest Microwave 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 × 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

**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

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

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

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