Southwest Microwave, Inc.
Security Systems Division

INTREPID™
SERIES II

RCM II
CM II-N
GCM II-HD
PSM
RPM II SDK
IPP II SDK

System Controller
Communication Configuration Drawings
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1. Controller Options

System Controller Specification Chart

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</table>

* ROM II-16-N only.
** Requires RPM II Hardware Module. RPM II provides internal 128 Zone Records for backup alarm annunciation via local form-C dry relay outputs.
*** Eight device string provides a 1-second or less alarm delivery time.
**** Sixteen device string provides a 2-second or less alarm delivery time. Not applicable to the RCM II.
2. Relay Control Module II – Typical Communication Configurations

NOTE: For Clarity Some Equipment Needed For A Complete System May Have Been Omitted

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2.1 Non-Fault Tolerant Configuration

- Non-Fault Tolerant communication.
- Maximum Zone Records supported per RCM II = 32
- Maximum devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM II) supported per RCM II = 8
- 1-Second or less alarm delivery time.
- Each PM II provides protection for 1,312 linear feet (400m) of perimeter fence line.
- Each MTP II provides protection for 1,312 linear feet (400m) of perimeter.
- Each MicroWave 330 provides protection for up to 1,500 linear feet (457m) of perimeter.

2.2 Star Configuration

- Sensor specifications are the same as those in the Non-Fault Tolerant Configuration but provides the most secure communications path to the RCM II controllers.
3. Control Module II-N – Typical Communication Configurations

NOTE: For Clarity Some Equipment Needed For A Complete System May Have Been Omitted

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3.1 Non-Fault Tolerant Configuration

- Non-Fault Tolerant communication.
- Maximum Zone Records supported per CM II-N = 256
- Maximum local devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM II) supported per CM II-N = 16
- Maximum remote devices (ROM II-16-N only) supported per CM II-N = 4
- 1-Second or less alarm delivery time when string of devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM II) does not exceed eight on single com-port.
- 2.5-Second or less alarm delivery time when the maximum number of supported local devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM I) are all connected to a single com-port.
- Each PM II provides protection for 1,312 linear feet (400m) of perimeter fence line.
- Each MTP II provides protection for 1,312 linear feet (400m) of perimeter.
- Each MicroWave 330 provides protection for up to 1,500 linear feet (457m) of perimeter.

3.2 Fault Tolerant Loop Configuration

- Sensor specifications are the same as those in the Non-Fault Tolerant Configuration but provides Fault Tolerant communications path to the CM II-N controller.

3.3 Star Configuration

- Sensor specifications are the same as those in the Non-Fault Tolerant Configuration but provides the most secure communications path to the CM II-N controllers.
4. Graphic Control Module II-HD – Typical Communication Configurations

NOTE: For Clarity Some Equipment Needed For A Complete System May Have Been Omitted

4.1 Non-Fault Tolerant Configuration

- Non-Fault Tolerant communication.
- GCM II-HD provides ASCII output (not shown) for high level CCTV interface.
- Local & remote GCM II-HD and sensor maintenance via on-board Ethernet connection.
- Maximum Zone Records supported per GCM II-HD = 1,024
- Maximum devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM II) supported per GCM II-HD = 32
- 1-Second or less alarm delivery time when string of devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM II) does not exceed eight on single com-port.
- 2.5-Second or less alarm delivery time when string of devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM I) does not exceed sixteen on single com-port.
- Each PM II provides protection for 1,312 linear feet (400m) of perimeter fence line.
- Each MTP II provides protection for 1,312 linear feet (400m) of perimeter.
- Each MicroWave 330 provides protection for up to 1,500 linear feet (457m) of perimeter.

4.2 Fault Tolerant Loop Configuration

- Sensor specifications are the same as those in the Non-Fault Tolerant Configuration but provides Fault Tolerant communications path to the GCM II-HD controller.

4.3 Star Configuration

- Sensor specifications are the same as those in the Non-Fault Tolerant Configuration but provides the most secure communications path to the GCM II-HD controller.
5. Perimeter Security Manager – Typical Communication Configurations

NOTE: For Clarity Some Equipment Needed For A Complete System May Have Been Omitted

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5.1 Non-Fault Tolerant Configuration

- Non-Fault Tolerant communication.
- PSM provides high level serial interface to a wide selection of CCTV matrices, DVRs & NVRs. Please contact the factory for a list of makes-models and features supported.
- Maximum Zone Records supported = Unlimited
- Maximum devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM II) supported = Unlimited
- 1-Second or less alarm delivery time when string of devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM II) does not exceed eight on single com-port.
- 2.5-Second or less alarm delivery time when string of devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM I) does not exceed sixteen on single com-port.
- Each PM II provides protection for 1,312 linear feet (400m) of perimeter fence line.
- Each MTP II provides protection for 1,312 linear feet (400m) of perimeter.
- Each MicroWave 330 provides protection for up to 1,500 linear feet (457m) of perimeter.

5.2 Star Configuration

- Sensor specifications are the same as those in the Non-Fault Tolerant Configuration but provides the most secure communications path to the PSM controller.
- A PSM system supports a maximum of 64 simultaneous connections. Each connection could be a string of Series II hardware, a CCTV matrix, a DVR or NVR.

5.3 Multiple Site Application

- PSM Migrating Server must be used when Secondary Monitoring Locations are required.
- PSM Migrating Server supports a maximum of five computers per system.
6. Remote Polling Module II/RPM II SDK – Typical Communication Configurations

NOTE: For Clarity Some Equipment Needed For A Complete System May Have Been Omitted

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6.1 Non-Fault Tolerant Configuration

- Non-Fault Tolerant communication.
- Please refer to software document 57A46792-A01 for information on the required RPM II SDK.
- Maximum Zone Records supported per RPM II = Unlimited using SDK interface, as backup 128 Zone Records reside in each RPM II (annunciated via form-C outputs).
- Maximum devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM II) supported per RPM II = 16
- 1-Second or less alarm delivery time when string of devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM II) does not exceed eight on single com-port.
- 2.5-Second or less alarm delivery time when the maximum number of supported devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM II) are all connected to a single com-port.
- Each PM II provides protection for 1,312 linear feet (400m) of perimeter fence line.
- Each MTP II provides protection for 1,312 linear feet (400m) of perimeter.
- Each MicroWave 330 provides protection for up to 1,500 linear feet (457m) of perimeter.

6.2 Fault Tolerant Loop Configuration

- Sensor specifications are the same as those in the Non-Fault Tolerant Configuration but provides Fault Tolerant communications path to the RPM II controller.

6.3 Multiple Site Application

- There is no limit to the number of Series II sites that can be monitored using the RPM II controller.
7. INTREPID® Polling Protocol II SDK – Typical Communication Configurations

NOTE: For Clarity Some Equipment Needed For A Complete System May Have Been Omitted

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7.1 Non-Fault Tolerant Configuration

- Non-Fault Tolerant communication.
- Please refer to software document 57A46504-A01 for information on the IPP II SDK.
- Maximum Zone Records supported per IPP II SDK connection = Unlimited
- Maximum devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM II) supported per IPP II SDK connection = Unlimited
- 1-Second or less alarm delivery time when string of devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM II) does not exceed eight on single com-port.
- 2.5-Second or less alarm delivery time when string of devices (PM II, MTP II, MW330, ROM II-8, ROM II-16, AIM I) does not exceed sixteen on single com-port.
- Each PM II provides protection for 1,312 linear feet (400m) of perimeter fence line.
- Each MTP II provides protection for 1,312 linear feet (400m) of perimeter.
- Each MicroWave 330 provides protection for up to 1,500 linear feet (457m) of perimeter.

7.2 Fault Tolerant Loop Configuration

- Sensor specifications are the same as those in the Non-Fault Tolerant Configuration but provides Fault Tolerant communications path to the IPP II SDK controller.
- For proper operation of Fault Tolerant Communication, bi-directional device polling must be included in the third parties software development.

7.3 Star Configuration

- Sensor specifications are the same as those in the Non-Fault Tolerant Configuration but provides the most secure communications path to the GCM II-HD controller.