

Southwest Microwave, Inc.
Security Systems Division

INTREPID™

MicroPoint™ II
MicroTrack™ II
MicroWave 330
AIM II
ROM II

Communication Configuration Drawings

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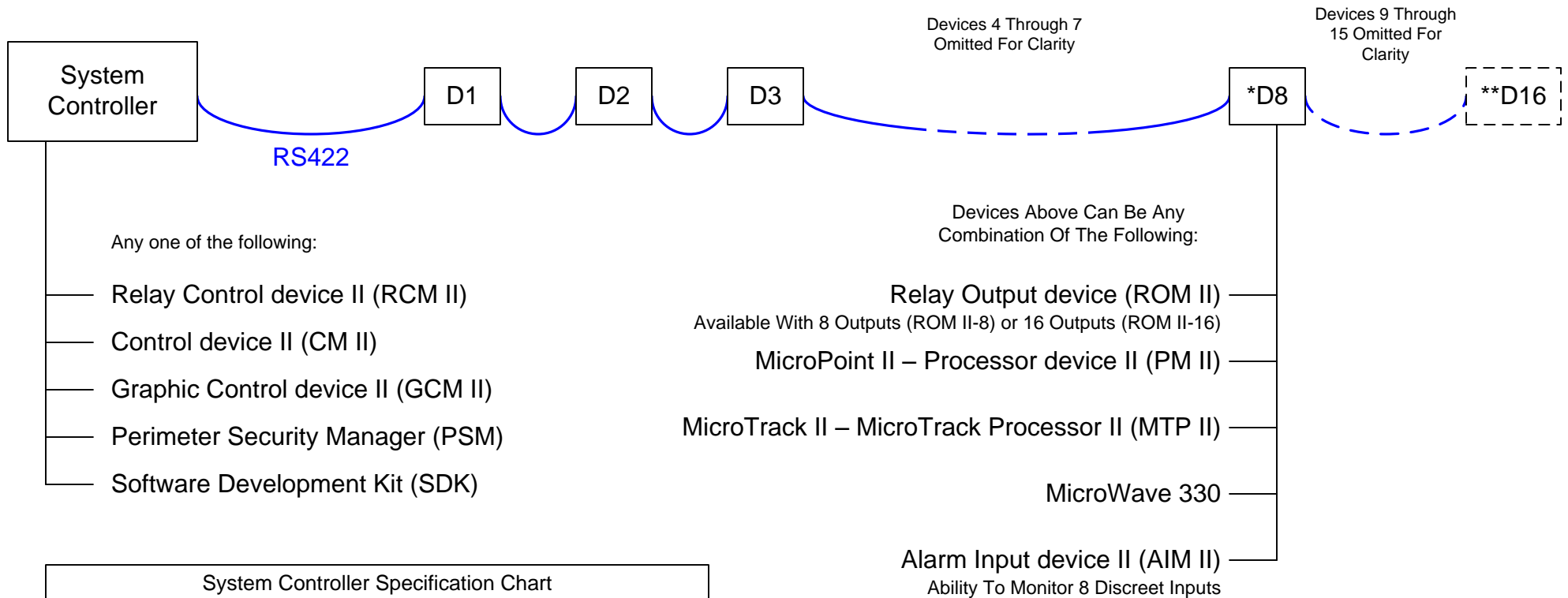
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INTREPID™ 1.1 - MicroPoint™ II, MicroTrack™ II, MicroWave 330, AIM II and ROM II

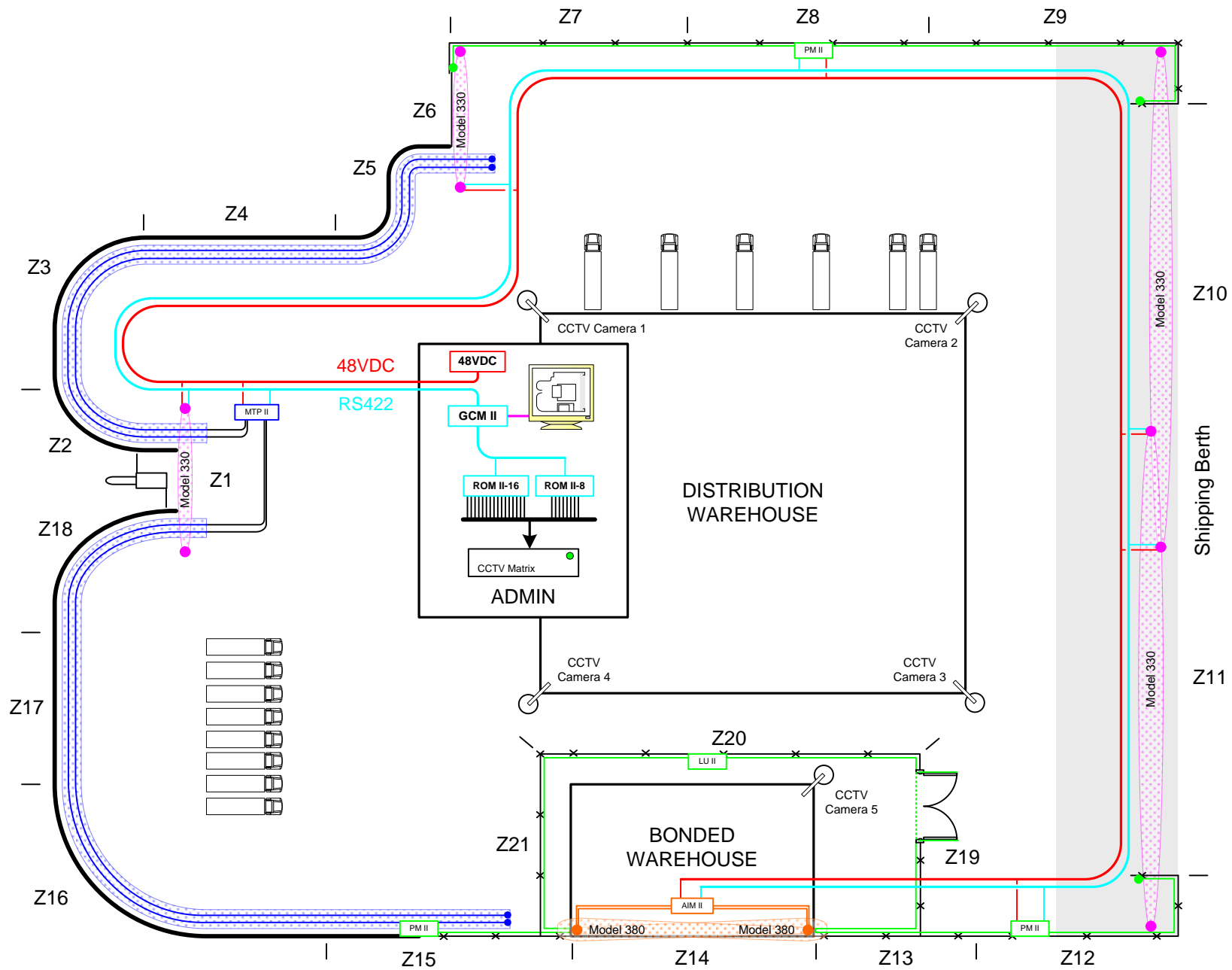
Controller Configuration Drawing



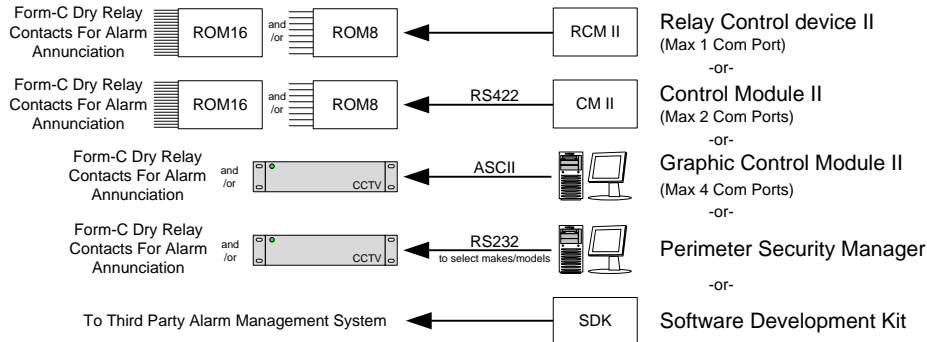
Controller	Ports	Devices	Outputs	Zones
RCM II	1	8	Relays	32
CM II	2	16	Relays	256
GCM II	4	32	Graphic Map Relays ASCII for CCTV	1024
PSM	64	240	Graphic Map CCTV Driver Relays	Unlimited
SDK	Unlimited	Unlimited	Graphic Map Relays	Unlimited

* 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.



SYSTEM CONTROLLERS available for this communication scheme

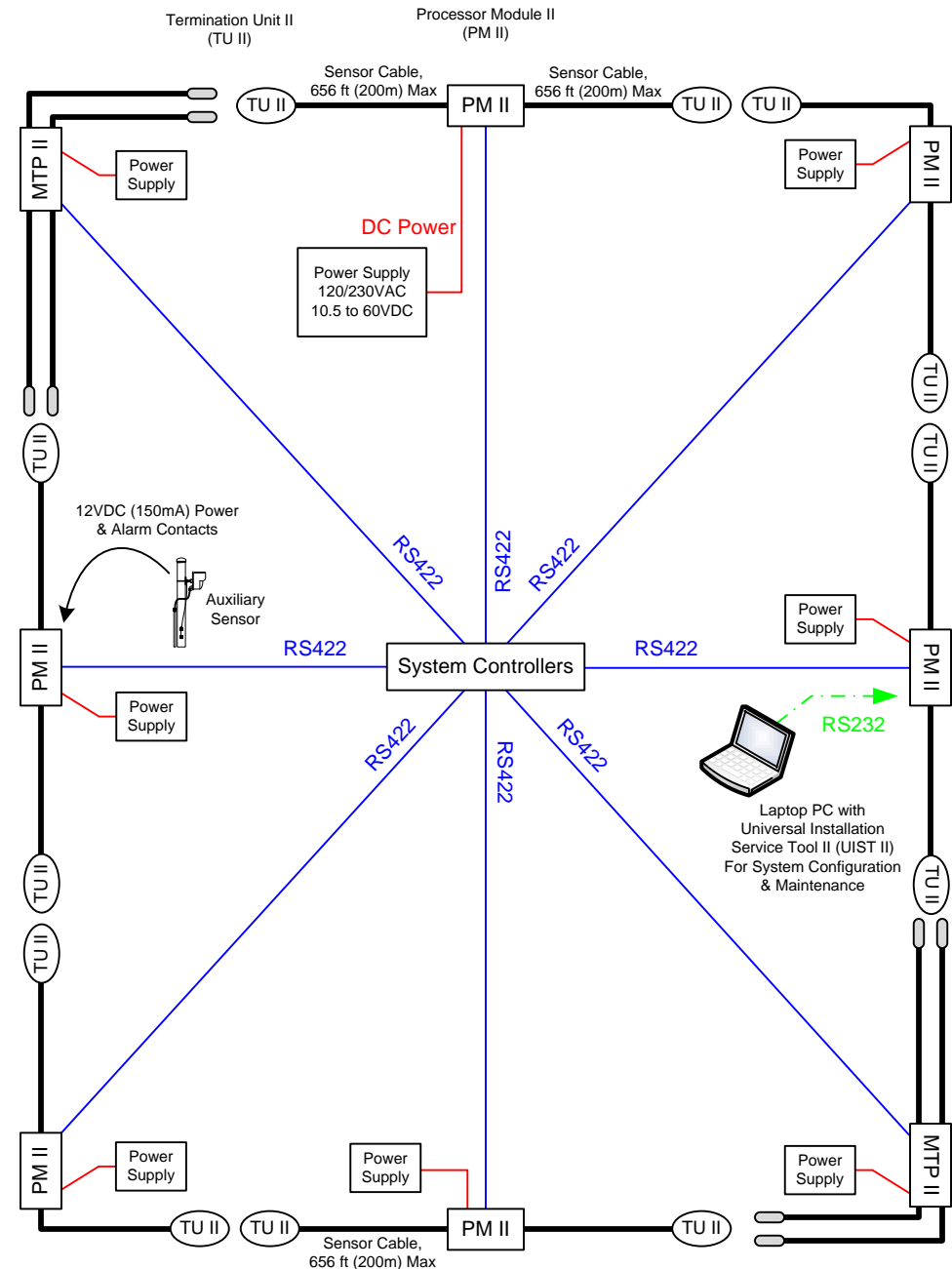


Features – Star Communication:

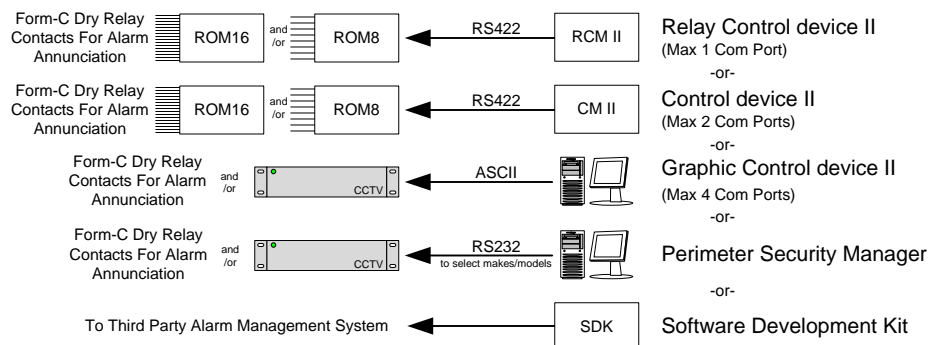
- Most secure communication structure.
- 1-second or less alarm delivery time.
- Each node can be configured from 1 to 400 individual zones (depending on controller).
- Dedicated power & communication to each device.
- No disruptions when connecting or removing processors.
- Each PM II provides protection for 1,312 ft. (400m) of perimeter fence line.
- Each PM II has the ability to monitor up to 4 auxiliary relay contact closures.
- Each PM II has the ability to provide power output (12VDC @ 150mA) for auxiliary devices.

PM II Connections

- DB9 Serial RS232 Plug COM1
Remote Setup and Maintenance Port Using UIST II
- RS422 Terminal Block COM2
- RS422 Terminal Block COM3
- External Alarm Input Block (4 Inputs per PM II)
- DC Power Output for Auxiliary Sensors (12VDC @ 150mA)
- 10.5-60VDC Power Input (13 Watts per PM II)



SYSTEM CONTROLLERS available for this communication scheme

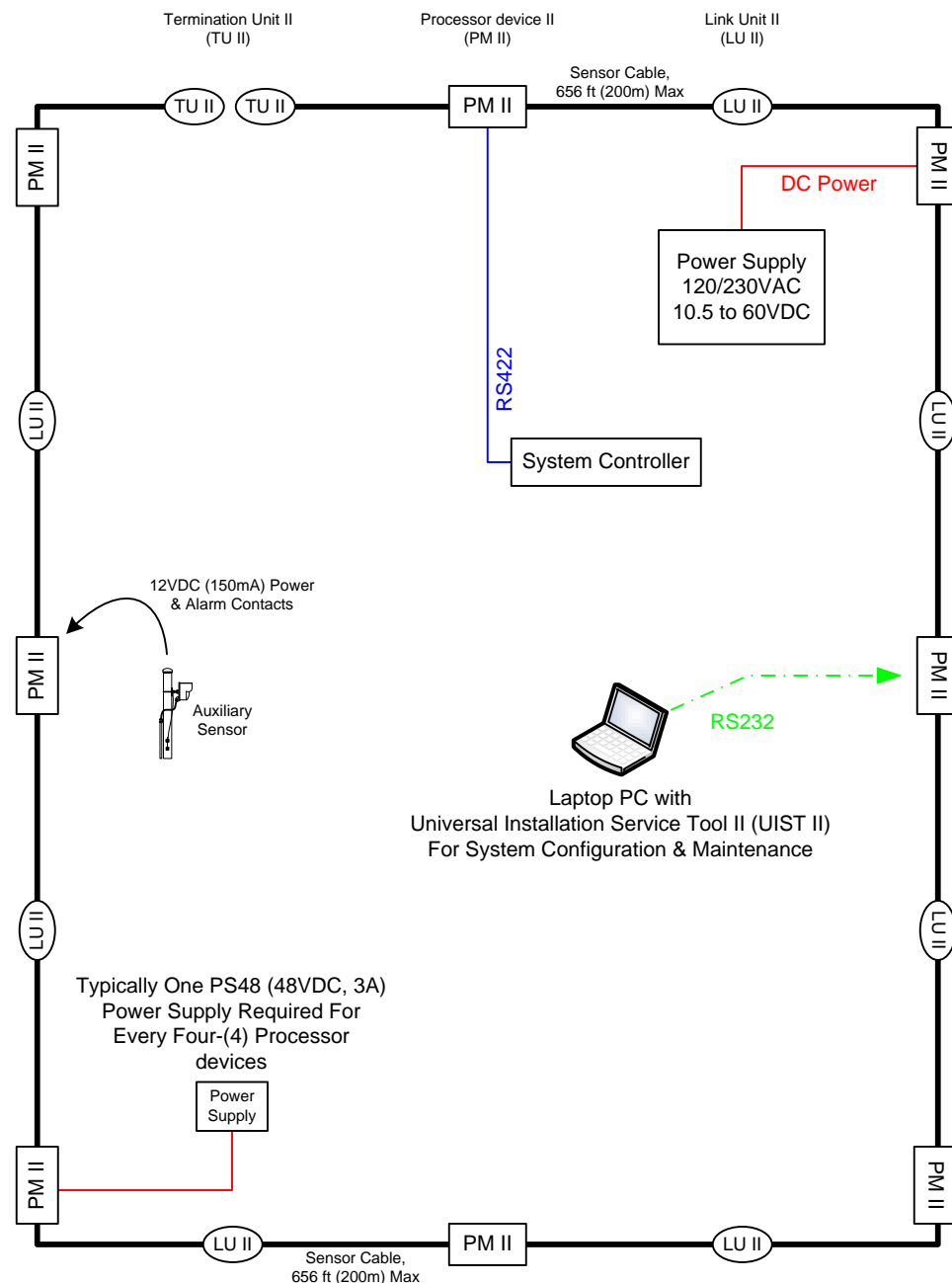


Features – FSK Communication Over Sensor Cable:

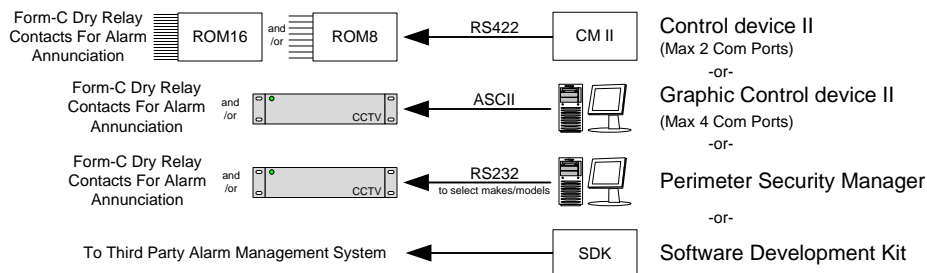
- Lowest per-foot installation cost.
- Each PM II provides protection for 1,312 ft. (400m) of perimeter fence line.
- DC Power & system communication routed over sensor cable.
- 1-Second or less alarm delivery time when string of devices (PM II, ROM8, ROM16, AIM II) does not exceed eight.
- 2-Second or less alarm delivery time when string of devices (PM II, ROM8, ROM16, AIM II) does not exceed sixteen. (RCM monitoring limited to a maximum of eight devices only.)
- Each PM II has the ability to monitor up to 4 auxiliary relay contact closures.
- Each PM II has the ability to provide power output (12VDC @ 150mA) for auxiliary devices.

PM II Connections

- DB9 Serial RS232 Plug COM1
Remote Setup and Maintenance Port Using UIST II
- RS422 Terminal Block COM2
- RS422 Terminal Block COM3
- External Alarm Input Block (4 Inputs per PM II)
- DC Power Output for Auxiliary Sensors (12VDC @ 150mA)
- 10.5-60VDC Power Input (13 Watts per PM II)



SYSTEM CONTROLLERS available for this communication scheme

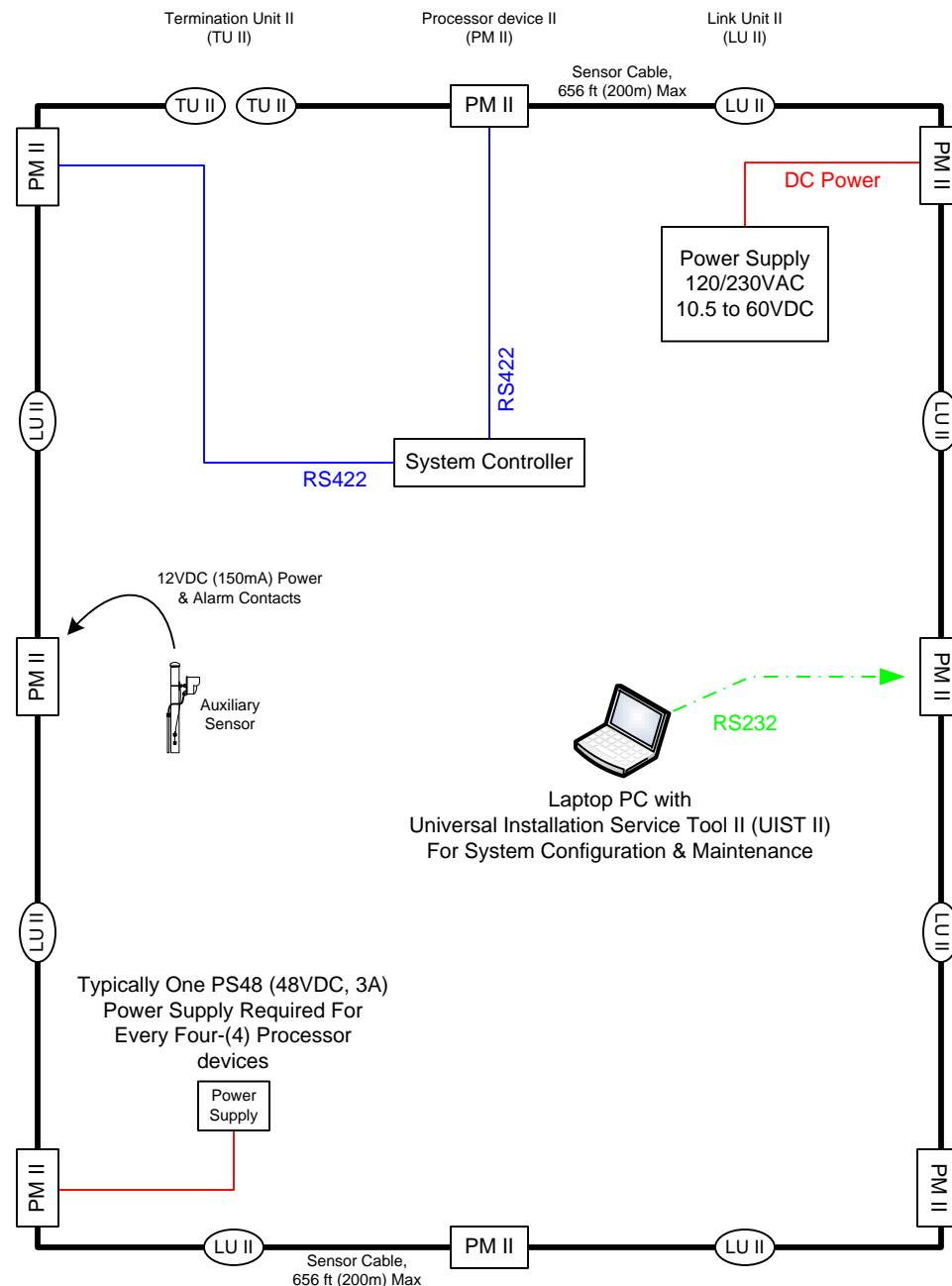


Features – Fault Tolerant RS422 Communication Loop:

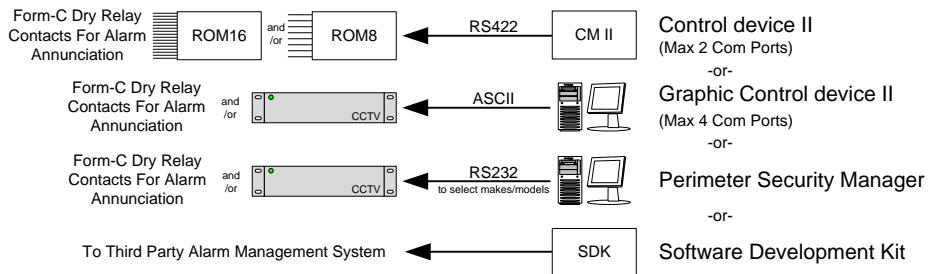
- Provides a secondary data path to the System Controller eliminating single point communication failures.
- Programmable from 1 to 1064 zones (depending on controller).
- Each PM II provides protection for 1,312 ft. (400m) of perimeter fence line.
- Each PM II has the ability to monitor up to 4 auxiliary relay contact closures.
- Each PM II has the ability to provide power output (12VDC @ 150mA) for auxiliary devices.

PM II Connections

- DB9 Serial RS232 Plug COM1
Remote Setup and Maintenance Port Using UIST II
- RS422 Terminal Block COM2
- RS422 Terminal Block COM3
- External Alarm Input Block (4 Inputs per PM II)
- DC Power Output for Auxiliary Sensors (12VDC @ 150mA)
- 10.5-60VDC Power Input (13 Watts per PM II)



SYSTEM CONTROLLERS available for this communication scheme

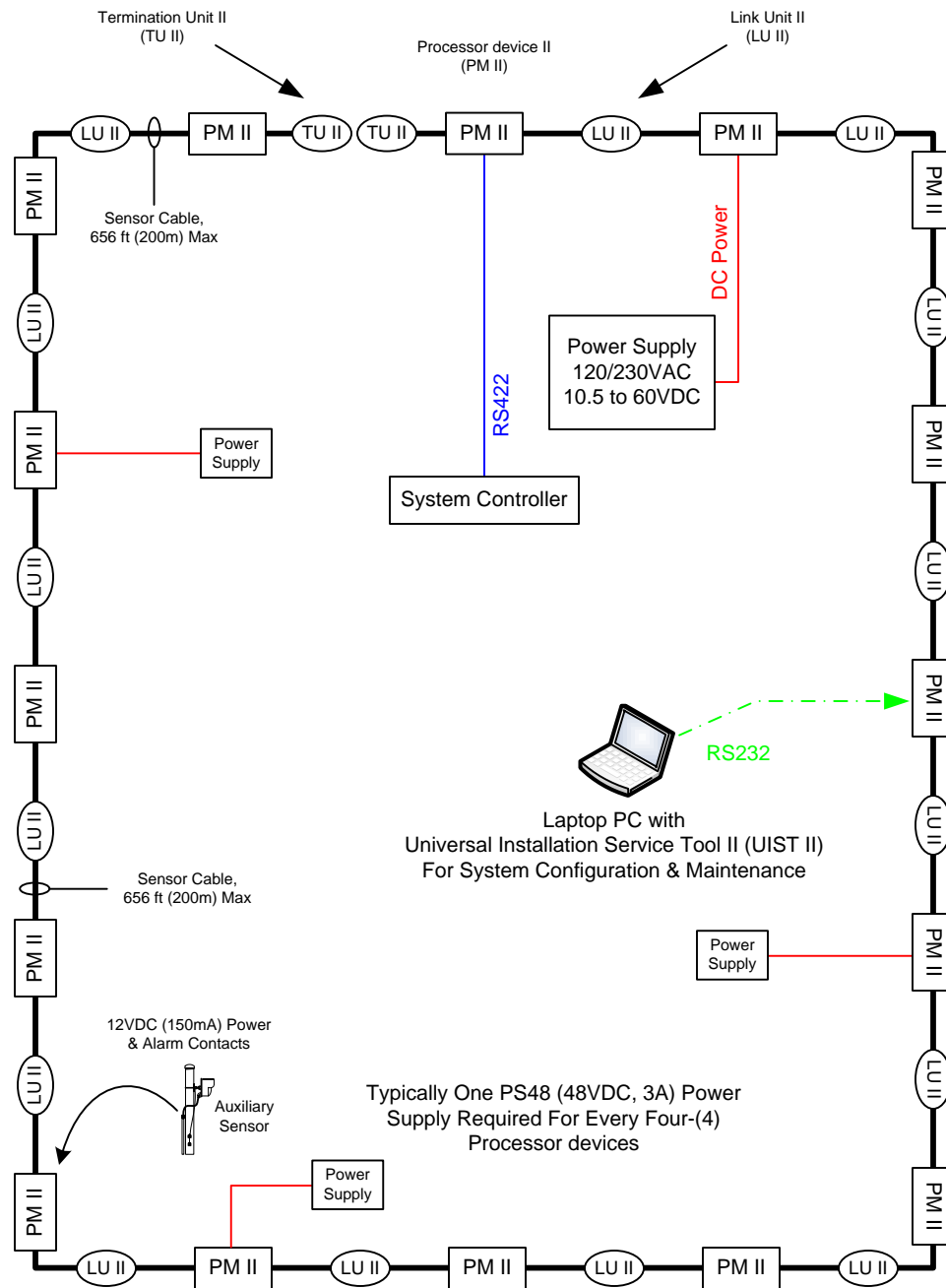


Features – 16 Processors - FSK Over Cable:

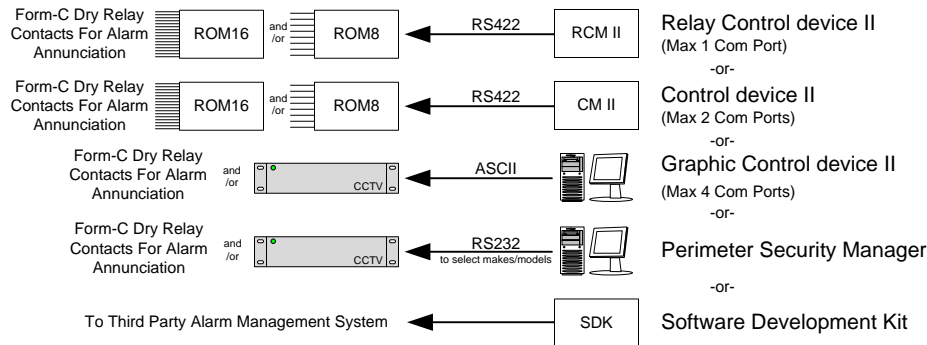
- Provides protection for 21,000 ft. (6.4km) of perimeter fence line.
- Programmable from 1 to 1064 zones (depending on controller).
- 2.4-Second or less alarm delivery time when string of devices (PM II, ROM8, ROM 16 and AIM II) does not exceed sixteen.
- Each PM II has the ability to monitor up to 4 auxiliary relay contact closures.
- Each PM II has the ability to provide power output (12VDC @ 150mA) for auxiliary devices.

PM II Connections

- DB9 Serial RS232 Plug COM1
Remote Setup and Maintenance Port Using UIST II
- RS422 Terminal Block COM2
- RS422 Terminal Block COM3
- External Alarm Input Block (4 Inputs per PM II)
- DC Power Output for Auxiliary Sensors (12VDC @ 150mA)
- 10.5-60VDC Power Input (13 Watts per PM II)



SYSTEM CONTROLLERS available for this communication scheme

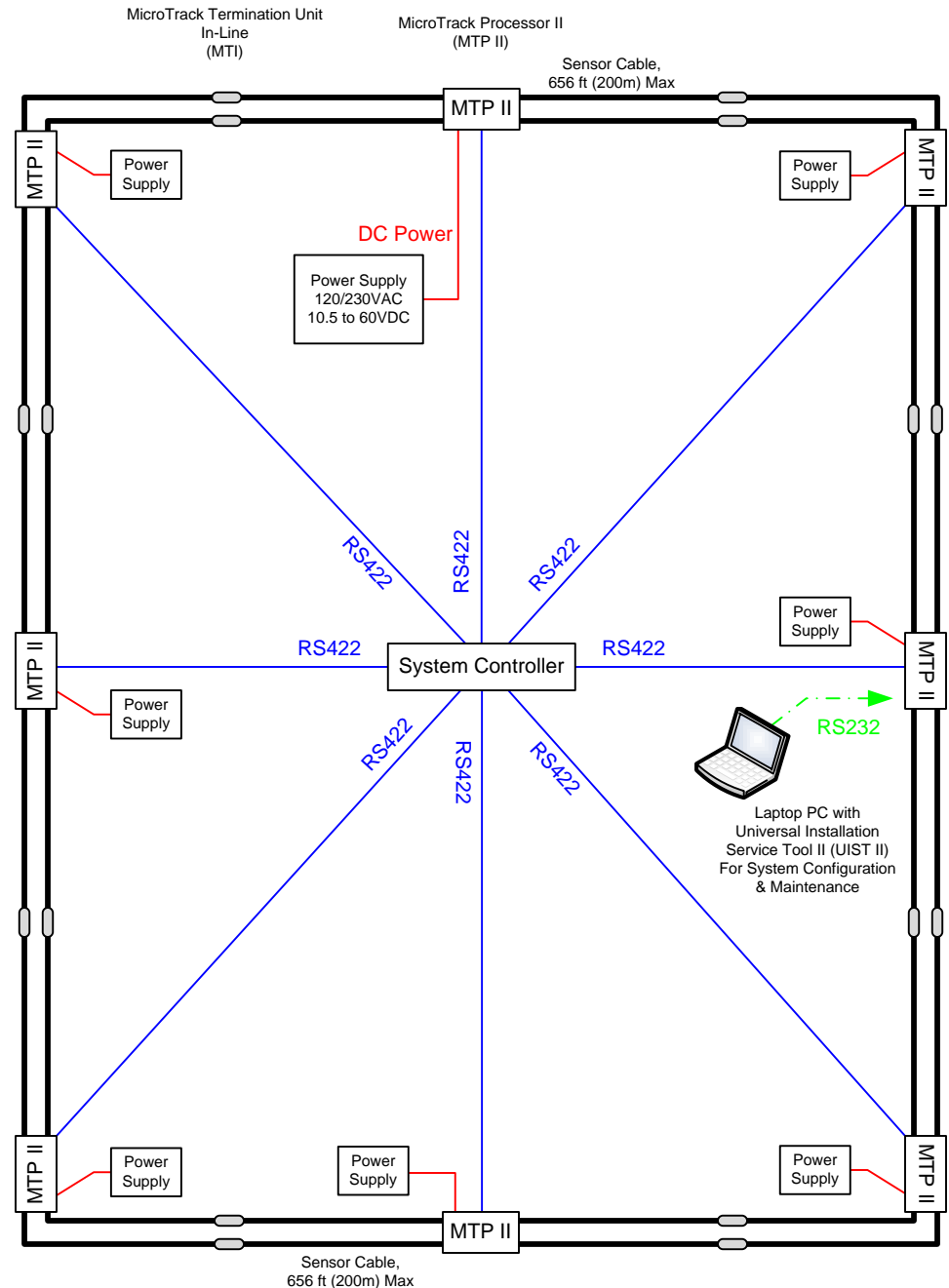


Features – Star Communication:

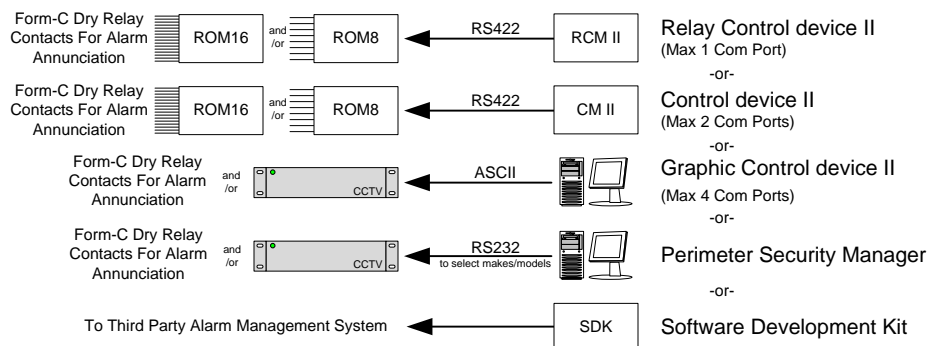
- Most secure communication structure.
- 1-second or less alarm delivery time.
- Each MTP programmable from 1 to 400 zones (depending on controller).
- Dedicated power & communication to each device.
- No disruptions when connecting or removing processors.

MTP II Connections

- DB9 Serial RS232 Plug COM1
Remote Setup and Maintenance Port Using UIST II
- RS422 Terminal Block COM2
- RS422 Terminal Block COM3
- External Tamper Input
- 10.5-60VDC Power Input (9 Watts per MTP II)



SYSTEM CONTROLLERS available for this communication scheme

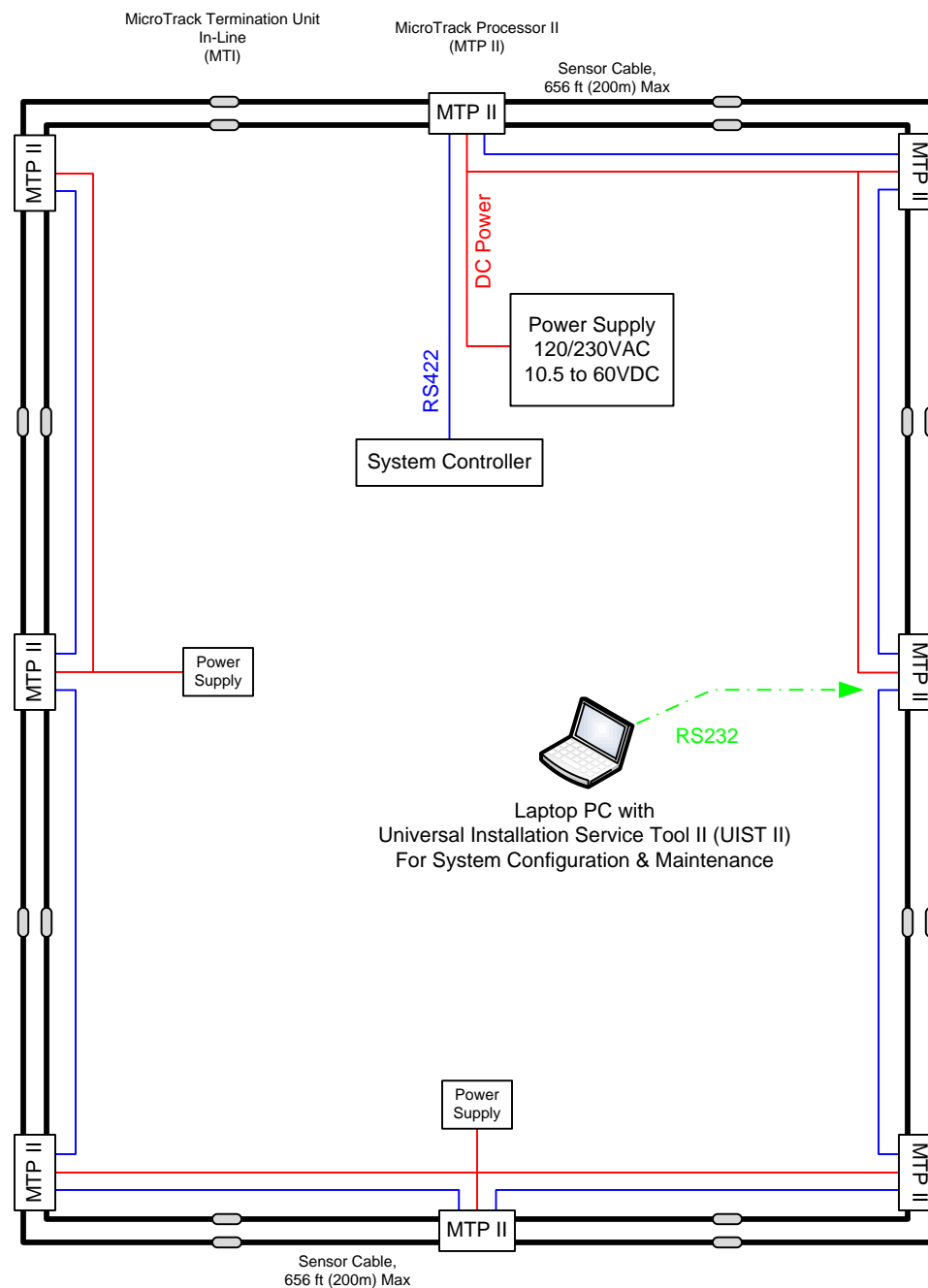


Features – RS422 Communication Loop:

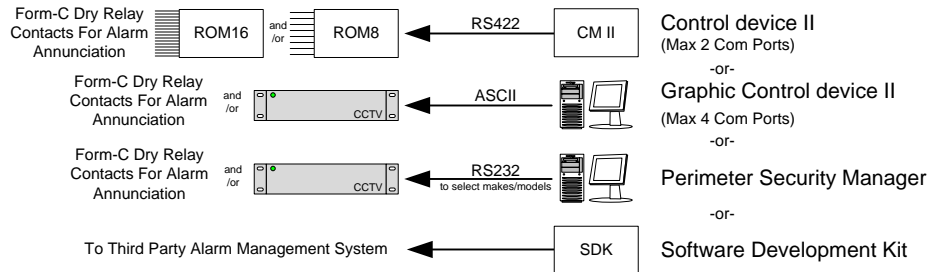
- Programmable from 1 to 1064 zones (depending on controller).
- 1-Second or less alarm delivery time when string of devices (MTP II, ROM8, ROM16, AIM II) does not exceed eight.
- 2-Second or less alarm delivery time when string of devices (MTP II, ROM8, ROM16, AIM II) does not exceed sixteen. (RCM monitoring limited to a maximum of eight devices only.)

MTP II Connections

- DB9 Serial RS232 Plug COM1 Remote Setup and Maintenance Port Using UIST II
- RS422 Terminal Block COM2
- RS422 Terminal Block COM3
- External Tamper Input
- 10.5-60VDC Power Input (9 Watts per MTP II)



SYSTEM CONTROLLERS available for this communication scheme

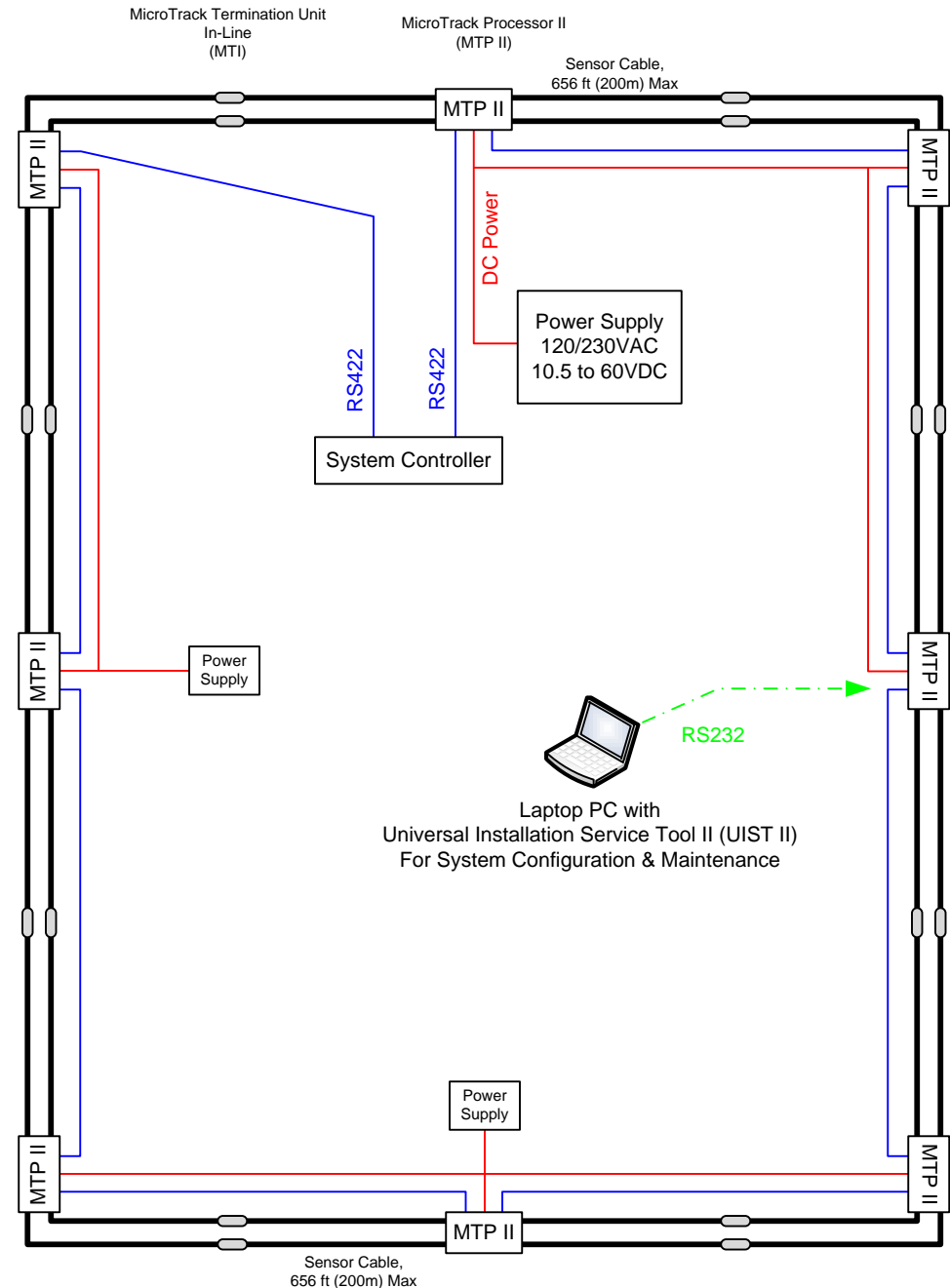


Features – Fault Tolerant RS422 Communication Loop:

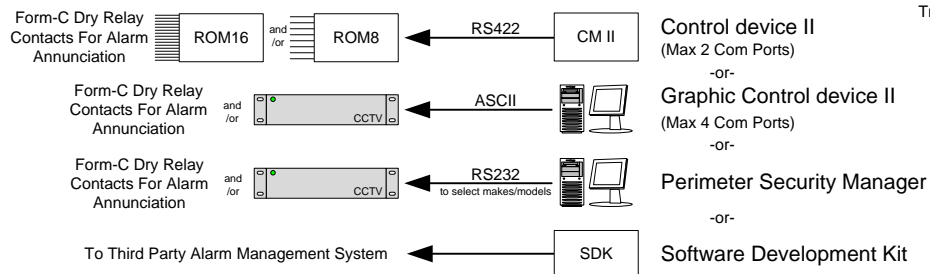
- Provides a secondary data path to the System Controller eliminating single point communication failures.
- Programmable from 1 to 1064 zones (depending on controller).

MTP II Connections

- DB9 Serial RS232 Plug COM1
Remote Setup and Maintenance Port Using UIST II
- RS422 Terminal Block COM2
- RS422 Terminal Block COM3
- External Tamper Input
- 10.5-60VDC Power Input (9 Watts per MTP II)



SYSTEM CONTROLLERS available for this communication scheme

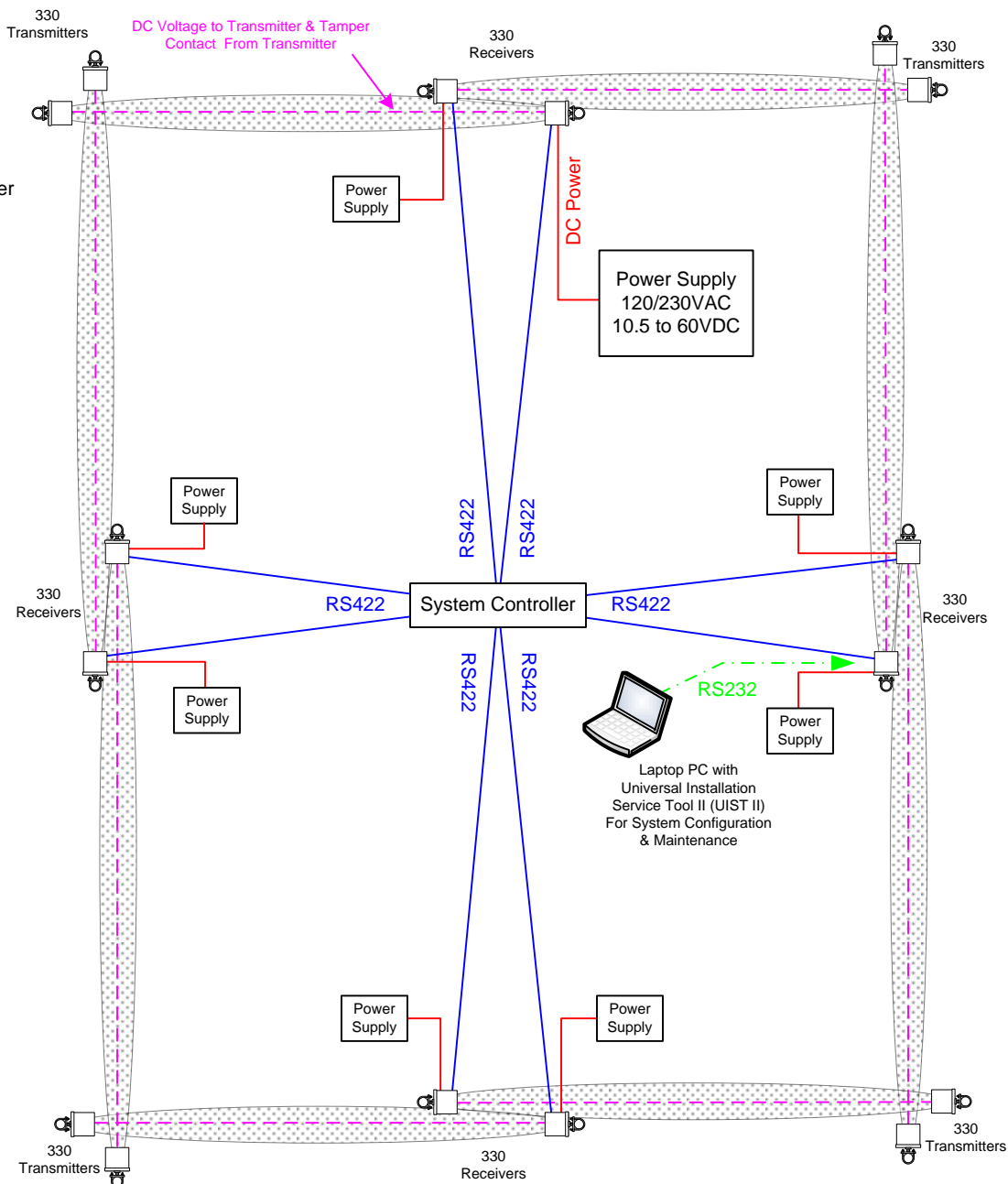


Features – Star Communication:

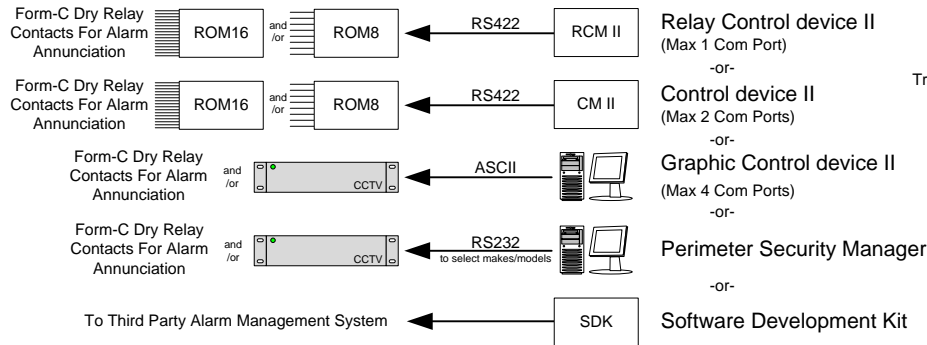
- Most secure communication structure.
- 1-second or less alarm delivery time.
- Dedicated power & communication to each device.
- No disruptions when connecting or removing processors.

330 Microwave Connections

- DB9 Serial RS232 Plug COM1 on Receiver Remote Setup and Maintenance Port Using UIST II
- RS422 Terminal Block COM2 on Receiver
- RS422 Terminal Block COM3 on Receiver
- Auxiliary Device Input Contact on Receiver
- 10.5-60VDC Power Input on both Transmitter and Receiver
- Case Tamper Output, SPST on both Transmitter and Receiver
- Alarm Relay Output, SPST on Receiver



SYSTEM CONTROLLERS available for this communication scheme

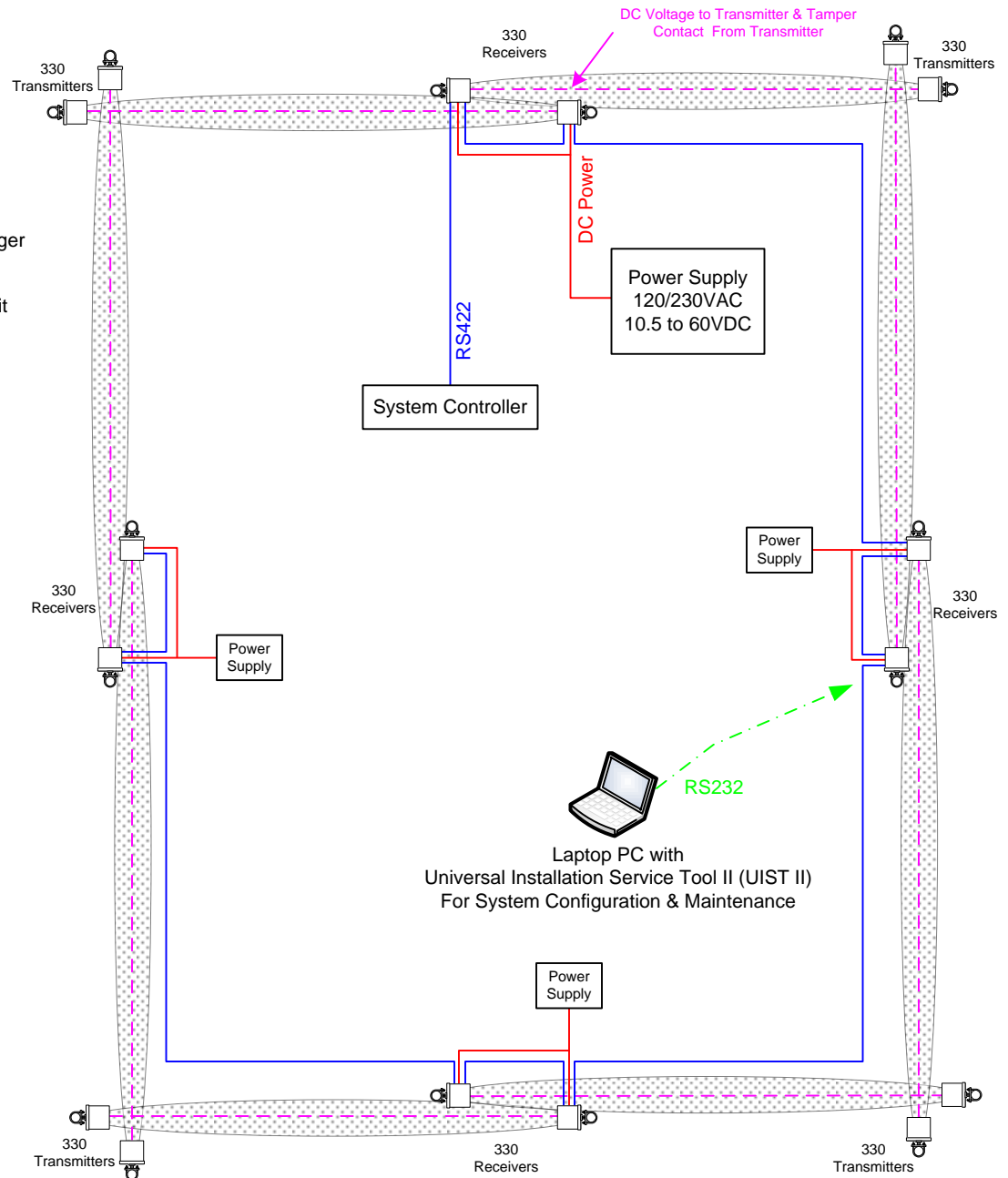


Features – RS422 Communication Loop:

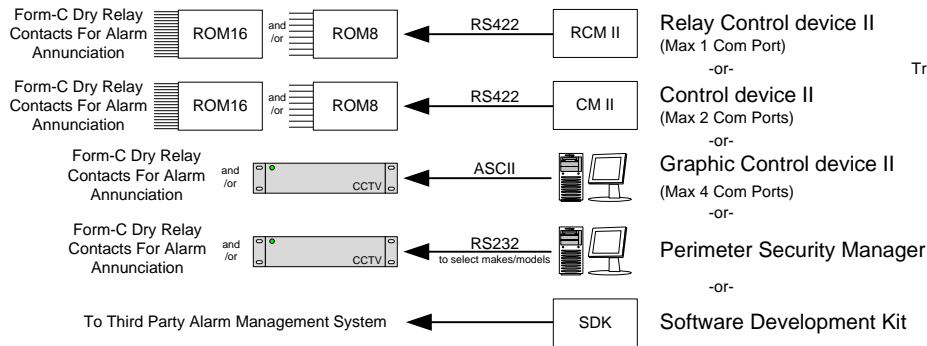
- 1-Second or less alarm delivery time when string of devices (MicroWave 330, ROM8, ROM16, AIM II) does not exceed eight.
- 2-Second or less alarm delivery time when string of devices (MicroWave 330, ROM8, ROM16, AIM II) does not exceed sixteen. (RCM monitoring limited to a maximum of eight devices only.)

330 Microwave Connections

- DB9 Serial RS232 Plug COM1 on Receiver
Remote Setup and Maintenance Port Using UIST II
- RS422 Terminal Block COM2 on Receiver
- RS422 Terminal Block COM3 on Receiver
- Auxiliary Device Input Contact on Receiver
- 10.5-60VDC Power Input on both Transmitter and Receiver
- Case Tamper Output, SPST on both Transmitter and Receiver
- Alarm Relay Output, SPST on Receiver



SYSTEM CONTROLLERS available for this communication scheme



Features – Fault Tolerant RS422 Communication Loop:

- Provides a secondary data path to the System Controller eliminating single point communication failures.

330 Microwave Connections

- DB9 Serial RS232 Plug COM1 on Receiver Remote Setup and Maintenance Port Using UIST II
- RS422 Terminal Block COM2 on Receiver
- RS422 Terminal Block COM3 on Receiver
- Auxiliary Device Input Contact on Receiver
- 10.5-60VDC Power Input on both Transmitter and Receiver
- Case Tamper Output, SPST on both Transmitter and Receiver
- Alarm Relay Output, SPST on Receiver

