



**RMC SERIES  
19" RACK MOUNTABLE COMMUNICATIONS MANAGEMENT  
CHASSIS**

**Architectural & Engineering  
Specifications**

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## A & E SPECIFICATIONS

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### RMC-115 19" RACK MOUNTABLE COMMUNICATIONS MANAGEMENT CHASSIS

#### 1. ACCEPTABLE MANUFACTURER

1.1. Optellios, Inc., 2260 Cabot Blvd. West, Suite 100, Langhorne, PA 19047 USA  
Telephone: 215.741.5850, Fax: 215.741.5851  
Email: [info@optellios.com](mailto:info@optellios.com), Internet: [www.fiberpatrol.com](http://www.fiberpatrol.com)

1.2. Substitutions: Not Permitted

1.3. All fiber optic modules shall be supplied from a single manufacturer

#### 2. 19" RACK MOUNTABLE COMMUNICATIONS MANAGEMENT CHASSIS

2.1. Provide rack mountable chassis as required. The system shall have an integral 115 VAC power supply with the option of field upgrade to redundant 115 VAC power supply or an external power supply. The system shall have provisions for sixteen (16) card slots when an external power supply is used or fourteen (14) card slots when integral or dual redundant power supplies are used. The system shall have current sensing circuitry to monitor current usage from the power supply and interrupt power in an over current situation. The system shall have automatic electronic current limiting to shutdown a problem module and leave the other modules operational. The automatic electronic current limiting shall be self-resetting should the fault or overload be of a temporary or intermittent condition. The system shall have an over current reset push-button located on the front of the power supply module for easy access. The system shall have no fuses or temperature dependant limiters to allow a full four (4) amps to be delivered over the full temperature range. The system shall provide local diagnostic indicators. A short circuit in one module shall not affect the operation of other modules powered from the common power supply. All card mount modules shall have the ability to be inserted into and removed from the communication management chassis without interrupting power and with no risk of damage to other modules or the communications management chassis during replacement. The system shall have an operating temperature of -40°C to +74°C, ambient, a storage temperature of -40°C to +85°C, ambient, a relative humidity ability of 0% to 95% (non-condensing), have an option for conformal coating, and a MTBF of > 100,000 hours. The system shall never require cooling fans or other external devices to operate over the entire temperature range. The system shall exceed NEMA TS-1/TS-2 and Caltrans Traffic Signal Control Equipment Specifications for operating temperature, humidity, mechanical shock, vibration, and voltage transient protection. The system radiated emissions shall be compliant with FCC Part 15, Class B, and EN55022 specifications.

#### 2.2. STATUS INDICATOR SPECIFICATIONS

2.2.1. Power / Status

2.2.2. Temperature

2.3. The 19" rack mountable communications management chassis shall be Optellios Fiber Patrol model RMC-115.

#### REVISION HISTORY:

##### File Name:

RMC-115AE\_REV\_1.3

##### Date:

3/14/07

##### Comments:

## A & E SPECIFICATIONS

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### RMC-230 19" RACK MOUNTABLE COMMUNICATIONS MANAGEMENT CHASSIS

#### 1. ACCEPTABLE MANUFACTURER

1.1. Optellios, Inc., 2260 Cabot Blvd. West, Suite 100, Langhorne, PA 19047 USA  
Telephone: 215.741.5850, Fax: 215.741.5851  
Email: [info@optellios.com](mailto:info@optellios.com), Internet: [www.fiberpatrol.com](http://www.fiberpatrol.com)

1.2. Substitutions: Not Permitted

1.3. All fiber optic modules shall be supplied from a single manufacturer

#### 2. 19" RACK MOUNTABLE COMMUNICATIONS MANAGEMENT CHASSIS

2.1. Provide rack mountable chassis as required. The system shall have an integral 230 VAC power supply with the option of field upgrade to redundant 230 VAC power supply or an external power supply. The system shall have provisions for sixteen (16) card slots when an external power supply is used or fourteen (14) card slots when integral or dual redundant power supplies are used. The system shall have current sensing circuitry to monitor current usage from the power supply and interrupt power in an over current situation. The system shall have automatic electronic current limiting to shutdown a problem module and leave the other modules operational. The automatic electronic current limiting shall be self-resetting should the fault or overload be of a temporary or intermittent condition. The system shall have an over current reset push-button located on the front of the power supply module for easy access. The system shall have no fuses or temperature dependant limiters to allow a full four (4) amps to be delivered over the full temperature range. The system shall provide local diagnostic indicators. A short circuit in one module shall not affect the operation of other modules powered from the common power supply. All card mount modules shall have the ability to be inserted into and removed from the communication management chassis without interrupting power and with no risk of damage to other modules or the communications management chassis during replacement. The system shall have an operating temperature of -40°C to +74°C, ambient, a storage temperature of -40°C to +85°C, ambient, a relative humidity ability of 0% to 95% (non-condensing), have an option for conformal coating, and a MTBF of > 100,000 hours. The system shall never require cooling fans or other external devices to operate over the entire temperature range. The system shall exceed NEMA TS-1/TS-2 and Caltrans Traffic Signal Control Equipment Specifications for operating temperature, humidity, mechanical shock, vibration, and voltage transient protection. The system radiated emissions shall be compliant with FCC Part 15, Class B, and EN55022 specifications.

#### 2.2. STATUS INDICATOR SPECIFICATIONS

2.2.1. Power / Status

2.2.2. Temperature

2.3. The 19" rack mountable communications management chassis shall be Optellios Fiber Patrol model RMC-230.

#### REVISION HISTORY:

##### File Name:

RMC-230AE\_REV\_1.3

##### Date:

3/14/07

##### Comments:

## A & E SPECIFICATIONS

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### RMC

### 19" RACK MOUNTABLE COMMUNICATIONS MANAGEMENT CHASSIS

#### 1. ACCEPTABLE MANUFACTURER

1.1. Optellios, Inc., 2260 Cabot Blvd. West, Suite 100, Langhorne, PA 19047 USA  
Telephone: 215.741.5850, Fax: 215.741.5851  
Email: [info@optellios.com](mailto:info@optellios.com), Internet: [www.fiberpatrol.com](http://www.fiberpatrol.com)

1.2. Substitutions: Not Permitted

1.3. All fiber optic modules shall be supplied from a single manufacturer

#### 2. 19" RACK MOUNTABLE COMMUNICATIONS MANAGEMENT CHASSIS

2.1. Provide rack mountable chassis as required. The system shall have the option of field upgrade to redundant 115 VAC power supply or an external power supply. The system shall have provisions for sixteen (16) card slots when an external power supply is used or fourteen (14) card slots when integral or dual redundant power supplies are used. The system shall have automatic electronic current limiting to shutdown a problem module and leave the other modules operational. The automatic electronic current limiting shall be self-resetting should the fault or overload be of a temporary or intermittent condition. A short circuit in one module shall not affect the operation of other modules powered from the common power supply. All card mount modules shall have the ability to be inserted into and removed from the communication management chassis without interrupting power and with no risk of damage to other modules or the communications management chassis during replacement. The system shall have an operating temperature of -40°C to +74°C, ambient, a storage temperature of -40°C to +85°C, ambient, a relative humidity ability of 0% to 95% (non-condensing), have an option for conformal coating, and a MTBF of > 100,000 hours. The system shall never require cooling fans or other external devices to operate over the entire temperature range. The system shall exceed NEMA TS-1/TS-2 and Caltrans Traffic Signal Control Equipment Specifications for operating temperature, humidity, mechanical shock, vibration, and voltage transient protection. The system radiated emissions shall be compliant with FCC Part 15, Class B, and EN55022 specifications.

#### 2.2. STATUS INDICATOR SPECIFICATIONS

2.2.1. Power / Status

2.2.2. Temperature

2.3. The 19" rack mountable communications management chassis shall be Optellios Fiber Patrol model RMC.

#### REVISION HISTORY:

##### File Name:

RMCAE\_REV\_1.3

##### Date:

3/14/07

##### Comments: