Remote Infrastructure Management (RIM-750)

Continuous environmental and security monitoring for a single server cabinet or a small computer or telecommunications equipment room.

Interconnectivity with other building management systems

RIM-750 (P/N 60100-001)

KEY FEATURES

- Remote monitoring of sensors in your computer and network equipment rooms

- Simple installation and setup

- Web-accessible with a clean, easy to use, mobile friendly web interface that displays sensor readings and trends

- Monitors eight digital inputs and four temperature or temperature/humidity sensors, plus one zone of leak detection with up to 200 feet (60 meters) of Sensor Rope

- USB power inlet allows you to power RIM-750 with the included wall adapter or a USB port on a server or other device, such as the eConnect® PDU

- Multiple alarm notification configurations including audible and visible indicators, email messaging and/or relay activation

- Relay output allows for simple control of an external device upon alarm condition

- Modbus or SNMP output enables simple integration with other facility management systems (BMS)

- Integrated logging and trending, including CSV downloadable trending data

SPECIFICATIONS

Includes	- 1 x RIM-750 - 1 x network cable, 3.3ft (1m) long - 1 x USB power adapter with USB mini B to USB A cable
Power	- USB mini-B power inlet, (US) 5VDC @ 500mA max. - Includes a 110/240VAC 50/60Hz; Wall adapter to USB connector - Power with included wall adapter or from USB port with 5VDC/@ 500mA max output
Wired Inputs	- Temperature/Humidity: 4 each, 1-wire digital temperature or 1-wire digital temperature/humidity sensor inputs; plug-and-play; configurable alarm points - Digital: 8 each, digital alarm points; configurable - Leak Detection: 1 each, zone leak detection, supports 200 ft (60 m) of conductive fluid Sensor Rope; Leak Detection Lead Cable and Sensor Rope(s) must be ordered separately
Relay Output	- 1 each, Form C summary relay; 2A @ 30VDC, 0.5A @125VAC; configurable as summary alarm output or manual operation
Alarm Notification	- Panel: Audible alarm, visible LED - Integrated Web Interface: Dashboard overview with alarm indicators - Email: up to 8 email recipients; email sent on alarm to all recipients, distribution list, or email-to-SMS - SNMP Traps: Multiple community strings - Relay: 1 Form C summary relay output
Web Interface Login Security	- 8 password read only, 8 password read/write
Communication Port	- Ethernet: 10/100 BaseT, RJ45 connector; 500VAC RMS isolation; DHCP enabled; Static IP-addressable
Protocols	- TCP/IP: ARP; DNS; UDP; DHCP; ICMP - HTML: Supports multiple simultaneous connections - SMTP (email): SMTP authentication; SMTP relay; supports SSL; up to 8 recipients - Modbus TCP/IP: Modbus slave; TCP/IP transmission protocol - SNMP: V1; V2C MIB-2 compliant; NMS manageable with Get and Traps; V2C Get, V2C and V1 Traps - NTP: Custom server settings
Logging	Logs 50 most recent alarm and return to normal events with date/time stamp.
Trending	Records up to 86,400 points of sensor data. Sample interval set from 1 second to 1 day. CSV downloadable.

Availability: US & Canada

United States & Canada
Simi Valley, CA
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Toronto, Ontario, Canada
+905-850-7770
chatsworth.com
techsupport@chatsworth.com

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+52-55-5203-7525
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SPECIFICATIONS

Operating Environment	- Temperature: -40°F to 185°F (-40°C to 85°C) - Humidity: 0% to 100% RH, non-condensing - Altitude: 15,000ft (4,572m) max. - Storage Environment: -40°F to 185°F (-40°C to 85°C)
Dimensions	1.00"H x 5.63"W x 2.63"D (25mm x 143mmW x 67mmD)
Weight	10.1 oz. (287g)
Mounting	Stand alone; keyholes included for wall mount; rack-mount bracket available
Certifications	CE; ETL listed: conforms to UL 61010-1, EN 61010-1; certified to CSA C22.2 NO. 61010-1; RoHS compliant

USE WITH:

• CPI Cabinet and Enclosure Systems
• CPI Rack Systems
• CPI Wall-Mount Systems

RELATED ACCESSORIES:

• CPI Aisle Containment Solutions
• CPI Thermal Management Solutions
• CPI Power Management Products
• CPI Electronic Locking System
• CPI Power Management Tool
• CPI eConnect® PDUs

ORDERING INFORMATION:

RIM-750		
Part Number	Description	Shipping Weight lb (kg)
60100-001	RIM-750, with 4 Temperature/Humidity inputs, 8 digital inputs, 1 leak detection input, 1 relay output, black	2 (0.9)
60100-002	RIM-750 and Leak Detection Kit Bundle, includes 1 RIM-750 with a Leak Detection Lead Cable and 200' (60 m) of Leak Detection Sensor Rope	9 (4.1)

Note: Leak Detection Lead Cable and Leak Detection Sensor Ropes can also be ordered separately.

Front and back view.

ACCESSORIES:

Rack Mount Bracket
• Holds two RIM-750 units
• 1U x 19"EIA x 3"D (76 mm)
• Black Finish

Part Number	Description	Shipping Weight lb (kg)
60107-001	Rack-Mount Bracket, 1U x 19"EIA x 3"D (76 mm)	2 (0.9)

Temperature and Humidity Sensor
Use the Temperature and Humidity Sensor to take temperature and humidity measurements close to the RIM-750. The Temperature and Humidity Sensor attache to one of the four. Temperature/Humidity inputs on RIM-750.
• Sensor Type: Temperature and humidity
• Connector: RJ11
• Cable Length: 25'L (7.6 m)
• Operating Temperature: -40°F to 185°F (-40°C to 85°C)
• Temperature Accuracy: ±0.125°
• Humidity: 5% to 95% RH, non-condensing

Part Number	Description	Shipping Weight lb (kg)
60108-002	Temp/Humidity Sensor, RJ11, 25'L (7.6 m) cord	1 (0.5)

ACCESSORIES:

Temperature Sensor
Use the Temperature Sensor to take temperature measurements close to the RIM-750. The Temperature Sensor attaches to one of the four Temperature/Humidity inputs on RIM-750.
• Sensor Type: Temperature
• Connector: RJ11
• Cable Length: 25'L (7.6 m)
• Operating Temperature: -67°F to 257°F (-55°C to 125°C)
• Temperature Accuracy: ±0.125°

Part Number	Description	Shipping Weight lb (kg)
60108-001	Temperature Sensor, RJ11, 25'L (7.6 m) cord	1 (0.5)

Leak Detection Lead Cable
Leak Detection Lead Cable is used to attach Leak Detection Sensor Rope to the single leak detection input on the RIM-750. This kit includes a 15'L (4.57 m) cable that connects the RIM-750 to the Leak Detection Sensor Rope and an End-of-Line Terminator that is attached to end of the Sensor Rope. Sensor Ropes are available in several lengths and multiple Sensor Ropes can be attached endto-end to create longer lengths. The RIM-750 can support up to 200 feet (60 m) of Sensor Rope. One Leak Detection Lead Cable is required to attach Sensor Rope(s) to each RIM-750.
• Includes one 15'L (4.57 m) leader cable for attaching Sensor Rope(s), and an End of Line Terminator for attachment to the Sensor Rope
• Leader Cable: 22 AWG, 4-conductor cable, .121" (.307 cm) nominal outside diameter
• Standards: NEC Article 725-CL2P, CMP, MPP
• Operating Temperature: 32°F to 122°F (0°C to 50°C)
• Operating Humidity: 5% to 95% RH, non-condensing
• Maximum Altitude: 15,000 ft (4,572m)
• Storage Temperature: -4°F to 158°F (-20°C to 70°C)
• Cable Length: 15 feet (4.57 meters)
• EOL Terminator Dimensions: 0.9"W x 2.0"L (22.9 mm x 50.8 mm)
• Weight: Cable-4.24 oz (120.2g); EOL-0.4 oz (11.3g)
• Material: Plastic housing
• Color: White/Black

Part Number	Description	Shipping Weight lb (kg)
60116-001	Leak Detection Lead Cable, 15'L (4.57 m) and End of Line Terminator	2 (0.9)

Note: Order Leak Detection Sensor Ropes separately.

Leak Detection Sensor Rope
The Sensor Rope detects the presence of water. The Sensor Rope is constructed of a strong, durable, non-conductive polymer to reduce false alarms, while remaining highly flexible for easy placement around equipment. Sensor Ropes attach to the RIM-750 through the Leak Detection Lead Cable. Sensor Ropes are available in three lengths. Connect Sensor Ropes end-to-end to extend length.
• Plenum Rating: CL2P (UL)
• Sheer Strength: >180 lb (>81.65 kg)
• Cut Through Resistance: >40 lb (>18.14 kg) with .005" (0.127 mm) blade
• Abrasion Resistance: 60 cycles per UL 719
• Operating Temperature: 32°F to 167°F (0°C to 75°C)
• Operating Humidity: 5% to 95% RH, non-condensing
• Maximum Altitude: 15,000 ft (4,572m)
• Storage Temperature: -22°F to 185°F (-30°C to 85°C)
• Size: Rope not >0.25" (6.35 mm) diameter
• Connector: 4 pin, 0.96" (24.38 mm) diameter
• Weight: .02 lb/ft (29.74 g/m)
• Material: Composite polymer
• Color: Orange/Black
• Certifications: CE; UL CL2P; RoHS Compliant; Plenum Rated

Part Number	Description	Shipping Weight lb (kg)
60109-003	Sensor Rope, 10 ft L (3.0 m)	1 (0.5)
60109-004	Sensor Rope, 25 ft L (7.6 m)	1 (0.5)
60109-005	Sensor Rope, 50 ft L (15.2 m)	3 (1.4)

Note: A Leak Detection Lead Cable is required to attach Sensor Ropes to a RIM-750. Each RIM-750 can support up to 200 feet (60 meters) of Sensor Rope, or a mix of Sensor Rope and Leak Spot Detectors. Each Leak Spot Detector reduces the total length of Sensor Rope supported by 50 feet (30.2 meters). Use J-Clips (ordered separately) to install Leak Detection Sensor Rope.

J-Clips For Leak Detection Sensor Rope
Use J-Clips to install Leak Detection Sensor Rope. J-Clips are constructed of durable nylon with an adhesive backing for easy and secure installation.
• Operating Environment (Adhesive): -4°F to 122°F (-20°C to 50°C)
• Size: 1.1"H x 1"W x 0.5"D (28 mm x 25 mm x 12 mm)
• Weight: 0.3 lb (0.1 kg)
• Material: UL94 V-1, RMS-05 Nylon
• Color: White

Part Number	Description	Shipping Weight lb (kg)
60109-006	J-Clips, Pack of 10	1 (0.5)
60109-007	J-Clips, Pack of 50	1 (0.5)

Note: Use J-Clips (ordered separately) to install Leak Detection Sensor Rope.

ACCESSORIES:

Smoke Detector

Surface-mount, wired, photoelectric smoke detector with twopiece construction that allows pre-wiring of the installation base with plug-in head. The Smoke Detector includes an external power supply and attaches to one of the eight digital inputs on the RIM-750.

- Input Power: 12/24V non-polarized (nominal); 8.5V (minimum); 35V (maximum)
- Maximum Ripple Voltage: 30% peak-to-peak of applied voltage
- Standby Current: 50µA maximum average
- Sensitivity: 2.5%/ft nominal
- Alarm Contact Ratings: 0.5A @ 30V AC/DC
- Maximum Alarm Current: 20mA @ 12V, 23mA @ 24V
- Operating Temperature Range: 32°F to 120°F (0°C to 49°C)
- Operating Humidity Range: 0 to 95% RH, non-condensing
- LED indicators: Red and Green indicate power up, normal, out of sensitivity, and alarm conditions
- Mounting: 3.5" octagonal back box, 4" octagonal back box, single-gang back box, 4" square back box with a plaster ring, direct mount to ceiling/wall
- Input Terminals: 14 to 22 AWG
- Size: 2.0"H x 5.3" diameter (51 mm x 127 mm diameter)
- Weight: 6.3 oz (178 g)
- Material: Housing, plastic; Color: White

Part Number	Description	Shipping Weight lb (kg)
60113-002	Smoke Detector, Power Supply included	2 (0.9)

Magnetic Door Sensor

Surface-mounted, wired, magnetic proximity sensor used to detect when a door is opened and closed or when a cover panel is attached or removed. Designed for quick and easy installation as well as a long life (4 million operations), attaches to one of the eight digital inputson the RIM-750.

- Contact Ratings: 3.0W max. @ 30 VDC or 30 VAC max. @ 0.3A max.; 1.0 msec. max. operate time (including bounce); 1.0 Amp max. current
- Contact Resistance: 100 mOhm max. initial
- Dielectric Strength: 200 VDC min.
- Electrical Circuit: SPST NO (contact Form A). Reed switch opens when magnet is removed from proximity. Contacts are held closed when magnet is in actuation range.
- Operating Temperature Range: -40°F to 212°F (-40°C to 100°C)
- Operating Distance/Alignment: 1.25" (31.8 mm) make gap;
  Operate (make) points are nominal values with ±10% tolerance. Release points are 110% to 150% of the operating points.
- Size: 2.5"H x 1.25"W x .625"D (63.5 mm x 31.8 mm x 15.9 mm)
- Material: Housing, plastic; Color: White

Part Number	Description	Shipping Weight lb (kg)
60110-001	Power Fail Monitor, with 120 VAC, 15A connection	1 (0.5)

Power Fail Monitor

Plugs into a standard 120 VAC NEMA 5-15 outlet to monitor for power loss. Secures to the outlet to ensure it is not accidentally disconnected and signals power loss through a Form C output relay. Power Fail Monitor attaches to one of the eight digital inputs on the RIM-750.

- Input: NEMA 5-15 plug, 3-prong (with ground)
- Power: 120 VAC @ 15mA
- Output: Relay, 1 Dry Contact, Form C; 10A @ 120 VAC; 5A @ 30 VDC
- Operating Temperature: 32°F to 122°F (0°C to 50°C)
- Operating Humidity: 5% to 95% RH, non-condensing
- Maximum Altitude: 15,000 ft (4,572 m)
- Storage Temperature: -4°F to 158°F (-20°C to 70°C)
- Size: 3.5"H x 2.375"W x 2.25"D (89 mm x 60 mm x 57 mm)
- Weight: 0.21 lb (0.01 kg)
- Material: Housing, plastic; Color: Black

Part Number	Description	Shipping Weight lb (kg)
60110-001	Power Fail Monitor, with 120 VAC, 15A connection	1 (0.5)

Motion Detector

A surface-mounted, wired, passive infrared motion detector designed for wall-to-wall coverage across a wide temperature range. When wall-mounted around 10 feet (3 meters) high, Motion Detector covers a cone shaped area with a maximum span of about 60 feet (18.2 m) and a maximum range of about 50 feet (15.2 meters). The Motion Detector includes an external power supply and attaches to one of the eight digital inputs on the RIM-750.

- Input Power: 9.5 VDC to 14.5 VDC
- Maximum Ripple Voltage: 3 V peak-to-peak @ 12 VDC
- Standby Current: 15 mA @ 12 VDC
- Current in Alarm: 18 mA @ 12VDC
- Contact Rating: 100mA @ 24VDC
- Alarm Contact Resistor in Common: 10 Ohm, 0.25W
- Operating Temperature Range: -4°F to 140°F (-20°C to 60°C)
- Operating Humidity Range: 0 to 95% RH, non-condensing
- RF Immunity: 50V/m from 0.01 to 1,200 MHz
- Static Immunity: 8kV Contact, 15kV Air
- Transient Immunity: 2.4 kV @ 1.2 joules
- White Light Immunity: 20,000 Lux @ Device
- Walk Detection Speed: 0.5 to 10 ft/s (0.15 to 3 m sec)
- Alarm Duration: 2 to 3 seconds
- Coverage Angle: 90° Minimum
- Mounting Height Range: 6 to 10.5 ft (1.8 to 3.2 m)
- Mounting: direct mount to wall
- Size: 3.0"H x 2.5"W x 1.87"D (89 mm x 64 mm x 48 mm)
- Material: Housing, plastic; Color: White

Part Number	Description	Shipping Weight lb (kg)
60114-002	Motion Detector, Power Supply included	2 (0.9)

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