SmartRIM 5000 Gen2

IoT-Enabled Remote Infrastructure Management

OVERVIEW

The EION SmartRIM 5000 Gen2 (Smart Remote Infrastructure Management) is an IoT-enabled platform to remotely monitor and manage primarily telecom towers, and monitor infrastructure like remote buildings, storage warehouses, remote campus environments, etc. SmartRIM 5000 Gen2 is an enterprise-grade, modular, sensor aggregation management platform that can be integrated with custom sensors, solutions and infrastructure.

SmartRIM 5000 Gen2 monitors the infrastructure of telecom towers like AC Power supply, temperature, humidity, water seepage in cabinets, ground fault issues, UPS battery alarm detection, etc. and sends alerts to the Network Operations Center (NOC) when there is any trigger.

SmartRIM 5000 Gen2 has an eight port Remote Power Relay system and auto-ping functionality. The devices in the telecom tower will be plugged into the SmartRIM device he remote power relay system enables remote login and the ability to turn ON/OFF or Power cycle any of the devices connected to the eight ports. The auto-ping feature helps with the self-healing capability of the network as it pings the devices on a scheduled basis; and when a device is not reachable, it automatically triggers the relay to reset the non-reachable device.

SmartRIM 5000 Gen2 works with EION's Network Monitoring System (MosaiQ) or any SNMP-based NMS. Using this, distributed remote infrastructure can be monitored with multiple SmartRIMs and managed in a centralized NOC. SmartRIM 5000 Gen2 is powered by an AC Power Supply and on site UPS. The primary communication is through a LAN/Ethernet interface. The form factor of SmartRIM 5000 Gen2 is ideal to be mounted on a 19-inch Rack or Tray Tabletop at the site of Base Stations in telecom towers to monitor the status of the infrastructure.

PRODUCT FEATURES

- Smart Remote Infrastructure Management Device
- Sensor Aggregation Platform
- Monitors and triggers alerts for the following:
    - AC power supply
    - AC Voltage presence
    - Water seepage in cabinets
    - Cabinet open/close
    - UPS battery alarm
    - Temperature
    - Humidity
    - 8 Port Remote Power Relay System
- Auto-ping functionality
- GUI monitoring Dashboard
- SNMP Traps for device alarms
- SNMP v1/v2/v3 support
- SNMP Traps
- Remote SSH capabilities
- LEDs: Power and System
- 4 USB Ports
- ON/OFF Switch
- Monitoring System logs
- Easy deployment and operation
- 19-inch Rack mounting form factor

ORDERING INFORMATION

SRIM-5000-G2	**SmartRIM 5000 Gen2 IoT-Enabled Remote Infrastructure Management**
SRIM-5000-G2-M100	**SmartRIM 5000 Gen2 IoT-Enabled Remote Infrastructure Management MOQ100 units**
SRIM-5000-G2-M500	**SmartRIM 5000 Gen2 IoT-Enabled Remote Infrastructure Management MOQ500 units**

SENSOR SYSTEM AND MONITORING

Sensor System	- AC power supply - AC Voltage presence - Water seepage in cabinets - GFS - Cabinet door open/close - UPS battery alarm - Ambient temperature - Humidity - SmartRIM Device Health - SmartRIM Device Temperature The following features can be ordered and monitored upon request: - Guy-wire tension sensor - Ground wire health monitoring - Wind sensor - Tower sway sensor - Tower metal corrosion sensor
Monitoring	- MosaiQ Network Monitoring System or any SNMP-based NMS - SNMP traps, OIDs and graphs in NMS - Web-GUI dashboard sensor readings - System logs - NTP Sync from Internet - System Trigger Alarms and graphs based on - AC main power supply ON/OFF - Water inside cabinet - Cabinet door open/close - UPS battery alarm - Temperature High/Low - Humidity High/Low - System health OK/Fault - Device temperature High/Low/Normal
Enhanced Control	- SmartRIM 5000 - Configure threshold limits through GUI - Graphical User Interface (GUI) with dashboard, IP and remote management features - SmartRIM equipment self-diagnostics 8 Port Power Relay System - Cloud based management system. - GUI Can be accessed from anywhere - Register all relays based on location and IP Address - A dashboard display of all relays based on criticality - Cycle/turn on/turn off individual ports or all ports with configurable cycle time - Auto-Ping - Add IP addresses to auto-ping - Delete IP addresses from auto-ping - Configure auto-ping properties - Scheduled Power Rest
GUI Features	- Static and DHCP IP settings - VLAN IP management - NTP global and private support - Default or fallback IP address - Device health report including CPU usage

INTERFACE SPECIFICATIONS TO CONNECT EXTERNAL DEVICES

Network Connection	1 x Gigabit Ethernet ports; Auto MDI-X RJ45 10/100/1000 Mbps Ethernet (POE)
DHCP	DHCP Client
Operation Mode	Standalone or Group of SmartRIMs managed centrally
Cord Connector	Standard AC cord connector
External Sensor system	13 sensor input termination system
Protocols	SNMP v1/v2/v3, TCP/IP, SSH

MANAGEMENT

Management Access	Over the Air & Wired
Remote Configuration	HTML Web-GUI, Controller
Remote Monitoring	HTML Web-GUI, SNMP Set, Get and traps with proprietary MIB files
Software Upgrade	Over the Air or local, Web-based upgrade
Services	Threshold configuration SNMP – MIBS, OID (Get and Set), Traps
SSH Access	Yes

PHYSICAL, ELECTRICAL & ENVIRONMENTAL

Power Consumption	Typ. < 20 Watts
Power Supply	● 100-240V, 50/60 Hz AC
LED Indicators	● Device Power ● CPU Powered ON
Reset Button	Yes
Temperature Range	Operating: -30º C to +70º C
Relative Humidity	Operating: 0% to 100% (condensing)
Mounting Options	Rack/Tray mounting
Chassis	19" metal rack
Enclosure	IP55
Weight	<2 Kg
Dimensions	5 x 12 x 1.75 inches

STANDARDS COMPLIANCE

Materials Compliance	RoHS/WEEE

BOX CONTENTS

Each box contains the following items	● SmartRIM 5000 Gen2 Remote Infrastructure Management ● 100-240V AC Power Cable ● Ethernet LAN cable with US Power Cord ● External Temperature Sensor ● External Humidity Sensor ● Water level sensor