SENSOR MANAGEMENT SOLUTION

Many technical managers like data center, facility, and security managers don’t always have access to the right tools needed to measure environmental and security variables in and around their equipment. Some simply don’t have networked devices available in every location, such as sensors and related sensor monitoring devices, to make informed decisions on the impact these variables have on critical infrastructure.

Raritan’s Smart Rack Controller (SRC) is an intelligent sensor management solution that serves as a central connection point for environmental monitoring, asset location, physical access, and other monitoring and security sensors. It addresses the gaps in instrumenting a facility or data center by providing an all-in-one intelligent device that collects and delivers real-time actionable data about your facility with minimum change needed to the configuration of existing power distribution or IT infrastructure.

The SRC is powered by Raritan’s proprietary Xerus™ Technology Platform with the latest iX7™ controller that delivers a future-proof design. Its multiple interface ports connect, monitor, and manage DX2 SmartSensors™, Asset Management accessories, and the SmartLock™ Door System into one device. It is a plug-and-play solution that can measure data in remote areas while seamlessly integrating with BMS and DCIM software. This allows operators to accurately and quickly measure conditions from anywhere, providing valuable insights to optimize and drive efficiency in a facility.

USES AND APPLICATIONS

The SRC’s universal mounting bracket allows it to be installed in a vertical or rackmount position. It is designed to meet the standards and needs of data centers, labs, network/compute closets, or remote locations like colocation, POP, and telecommunication sites. Popular applications include:

- Data centers
- Edge compute locations
- Modular data centers
- Older data centers being refurbished and refitted with newer systems
- 5G installations
- Macro cell towers
- Commercial broadcast radio and TV antenna installations
- Smart city data gateways

BENEFITS

- Minimize the hours needed to track IT assets, thereby saving time and money
- Ensure uptime by monitoring racks for possible hot spots
- Save on cooling costs by confidently raising data center or facility temperatures
- Maintain cabinet and enclosure security with USB peripherals and contact closure sensors
- Improve data center uptime by receiving environment alerts
- Optimize strategic and tactical decision making for the IT environment by tracking IT changes and growth in real-time
- Gain audited controlled access to sensitive IT assets with the SmartLock Door system
- Available in 100–240VAC and +/- 48VDC power options
- Helps meet ASHRAE and ANSI/TIA-942-A guidelines
HOW DOES IT WORK?

The Raritan SRC is a central connection point for all of Raritan’s intelligent sensors. Its LCD display and remotely accessible web GUI provide access to sensor readings, including data from connected temperature, humidity, asset tag, airflow, differential air pressure, cabinet access, and contact closure sensors. These readings can be viewed with a web browser, or the information can be passed on to energy management and monitoring software tools for further analysis.

Raritan's plug-and-play DX2 SmartSensors, Asset Management accessories, and the SmartLock Door System easily connect to the SRC without needing to change the configuration of existing power distribution or IT infrastructure.

SMARTSENSORS

Raritan’s SmartSensors are a comprehensive set of sensors that monitor the environment within a data center. They are engineered to facilitate easy deployment while providing accurate data and insight into your operation. SmartSensors are available for monitoring temperature, humidity, airflow, differential air pressure, water/leaks, contact closures, proximity detection, vibration, and more.

SMARTLOCK DOOR SYSTEM

The SRC is fully integrated with Raritan’s SmartLock which is a networked, electronic door access and control system designed to deliver audited controlled access to IT assets in the data centers’ white space. It is an economical and scalable solution that addresses evolving security requirements for IT applications and regulatory compliance from PCI DSS, SOX, SSAE, HIPAA, GDPR, and EN50600.

ASSET MANAGEMENT TAGS AND SENSORS

With asset management, you can remotely track IT equipment locations after tagging IT devices electronically. This feature is especially useful when there are hundreds of IT devices to administer. The asset management solution includes:

- Raritan Asset Management Tags (AMT)—An electronic asset tag with a unique ID attaches to an IT device.
- Raritan Asset Management Sensors (AMS)—The asset sensors mounted on your racks monitor and provide location information on each asset.

POWERED BY XERUS

Xerus is a technology platform that combines hardware and software and is the core of the Smart Rack Controller. It is comprised of a state-of-the-art network interface module, pushbutton enabled multi-color LCD display, open APIs, and a plethora of interface ports. Xerus helps to maximize data center efficiency by delivering security, high compute power, advanced alerting, intelligence, and complete visibility into your power chain.

800.724.8090 / +1 732.764.8886 / Fax +1 732.764.8887 / sales@raritan.com
FEATURES

OPTIMIZE YOUR ENVIRONMENT
Connect up to 204 plug-and-play sensors* that monitor and manage critical environmental conditions, such as temperature, humidity, and airflow, as well as security conditions with physical access control devices like door handles and card readers. (*requires additional accessories)

SMALL FORM FACTOR PROVIDES FLEXIBILITY
Support existing cabinet infrastructure or even mount outside a rack, in an equipment closet, or other areas to make better use of your available space with rackmount or vertical mount orientations.

RECEIVE ADVANCED ALERTS
Define thresholds and receive alerts via SNMP, email, and API when thresholds are crossed for both asset and environmental events.

REMOTE IT LOCATIONS
The SRC provides flexibility in monitoring and managing remote and unstaffed facilities by adding a layer of intelligence enabled by a wide variety of sensors.

IX7 INTELLIGENT CONTROLLER
The iX7 controller delivers more compute power, reliability, a new level of access control, multiple interface ports, and a future-proof design to help you manage your operations more efficiently and at lower costs.

COMPATIBLE WITH MONITORING SYSTEMS
The Xerus-enabled open architecture provides ease of integration into any BMS or DCIM monitoring software tools with protocols like SNMP, Modbus over TCP/IP, and JSON-RPI.
A TOTAL SOLUTION TO MANAGE AND MONITOR ALL ASPECTS OF YOUR RACK ENVIRONMENT

Remote Hub Ports
Utilize these ports to connect two Remote Hubs, providing access to 8 additional sensor ports. Each hub and its connected sensors can be located up to 50m (150 ft) away from the device, expanding coverage to where you need it.

Sensor Ports
**Environmental Sensors**
- Temperature
- Humidity
- Dual Temp/Humidity
- Airflow
- Differential Air Pressure
- Water Floor Leak
- Water Rope

**Physical Access & Security Sensors**
- Contact Closure
- SmartLock
- Proximity

**Specialized Sensors**
- Vibration

iX7 Controller
The iX7 controller provides a future-proof design, with more computing power, higher efficiency processors, a host of extra ports, and standard Gigabit Ethernet.

**SMART RACK CONTROLLER SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRC-0100</td>
<td>1U Smart rack controller with, 2 x C14 power inputs, 1 x RJ-45 sensor port, 1 x RJ-45 RS-485 port, 2 x USB-A ports, 1 x USB-B port, 2 x RJ-45 (10/100/1000 Mbps) Ethernet ports, 1 x RJ-45 feature port, multi-color LCD display.</td>
</tr>
<tr>
<td>SRC-0102</td>
<td>1U Smart rack controller with, 2 x C14 power inputs, 1 x RJ-45 sensor port, 1 x RJ-45 RS-485 port, 2 x USB-A ports, 1 x USB-B port, 2 x RJ-45 (10/100/1000 Mbps) Ethernet ports, 1 x RJ-45 feature port, with built-in 2 x DX2-DH2C2 (Door Handle Interface), multi-color LCD display.</td>
</tr>
<tr>
<td>SRC-0103</td>
<td>1U Smart rack controller with, 2 x Terminals (48VDC), 1 x RJ-45 sensor port, 1 x RJ-45 RS-485 port, 2 x USB-A ports, 1 x USB-B port, 2 x RJ-45 (10/100/1000 Mbps) Ethernet ports, 1 x RJ-45 feature port, 2 x DX2-DH2C2, multi-color LCD display.</td>
</tr>
<tr>
<td>SRC-0800</td>
<td>1U Smart rack controller with, 2 x C14 power inputs, 8 x RJ-45 sensor ports, 1 x RJ-45 RS-485 port, 2 x USB-A ports, 1 x USB-B port, 2 x RJ-45 (10/100/1000 Mbps) Ethernet ports, 1 x RJ-45 feature port, with built-in 2 x RJ-45 ports to connect remote hubs, multi-color LCD display.</td>
</tr>
</tbody>
</table>

* Power cords are not included

Visit [www.raritan.com/SRC](http://www.raritan.com/SRC) or Call 1.800.724.8090 for more information.

©2021 Raritan Inc. All rights reserved. Raritan® is a registered trademark of Raritan Inc. or its wholly-owned subsidiaries. All others are registered trademarks or trademarks of their respective owners. Raritan began developing KVM switches for IT professionals to manage servers remotely in 1985. Today, as a brand of Legrand, we are a leading provider of intelligent rack PDU. Our solutions increase the reliability and intelligence of data centers of the top 10 Fortune 500 technology companies. Learn more at Raritan.com V1277 R4