



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 physical sensitive IT assets with the SmartLock Door system
- Available in 100-240VAC and +/- 48VDC power options

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.

SMART SENSORS

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 HIPPA, SOX, PCI DSS 3.2, and SSAE.

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:

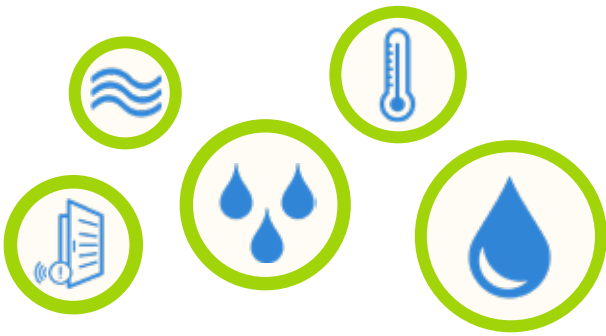
- Raritan Asset Management Tags (AMT)—An electronic asset tag with a unique ID attaches to an IT device.
- Raritan Asset Management Sensors (AMS)—The asset sensors mounted on your racks monitor and provide location information on each asset.



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 all on a hot-swappable card. Xerus helps to maximize data center efficiency by delivering security, high compute power, advanced alerting, intelligence, and complete visibility into your power chain.

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)



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.



SMALL FORM FACTOR PROVIDES FLEXIBILITY

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



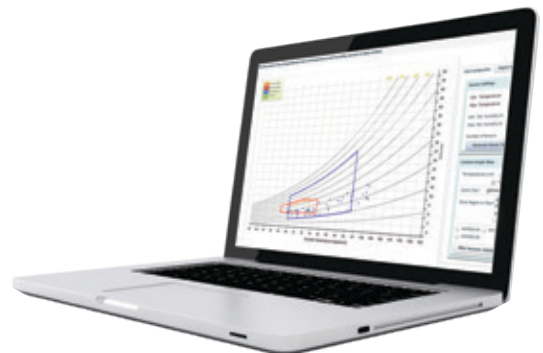
RECEIVE ADVANCED ALERTS

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



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

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.

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 150 ft (50m) away from the device, expanding coverage to where you need it.



Model Shown: SRC-0800

Sensor Ports

Environmental Sensors

- Temperature
- Humidity
- Dual Temp/Humidity
- Airflow
- Differential Air Pressure
- Water Floor Leak
- Water Rope

Physical Access & Security Sensors

- Contact Closure
- Contact
- Asset Management
- Proximity

Specialized Sensors

- Vibration

Dual Power Supply

Dual power supplies and inputs provide true power redundancy. If one feed loses power you won't lose power to the device.

SMART RACK CONTROLLER SPECIFICATIONS

Model	Description
SRC-0100	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.
SRC-0102	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.
SRC-0103	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.
SRC-0800	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.

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