

# Remote Smart Hardware Management for Digital Rail

CONNECT AND PROTECT

With the expanding deployment of digital rail, there is a need to **remotely** monitor and control sensitive equipment in the technical control rooms throughout the rail network.

Increasingly sophisticated electronic equipment is essential for digital rail operation which also requires higher levels of control and condition monitoring:



**REMOTE ELECTRONICS**  
CONDITION MONITORING  
AND CONTROL



**SMART COOLING**



**SENSORS**



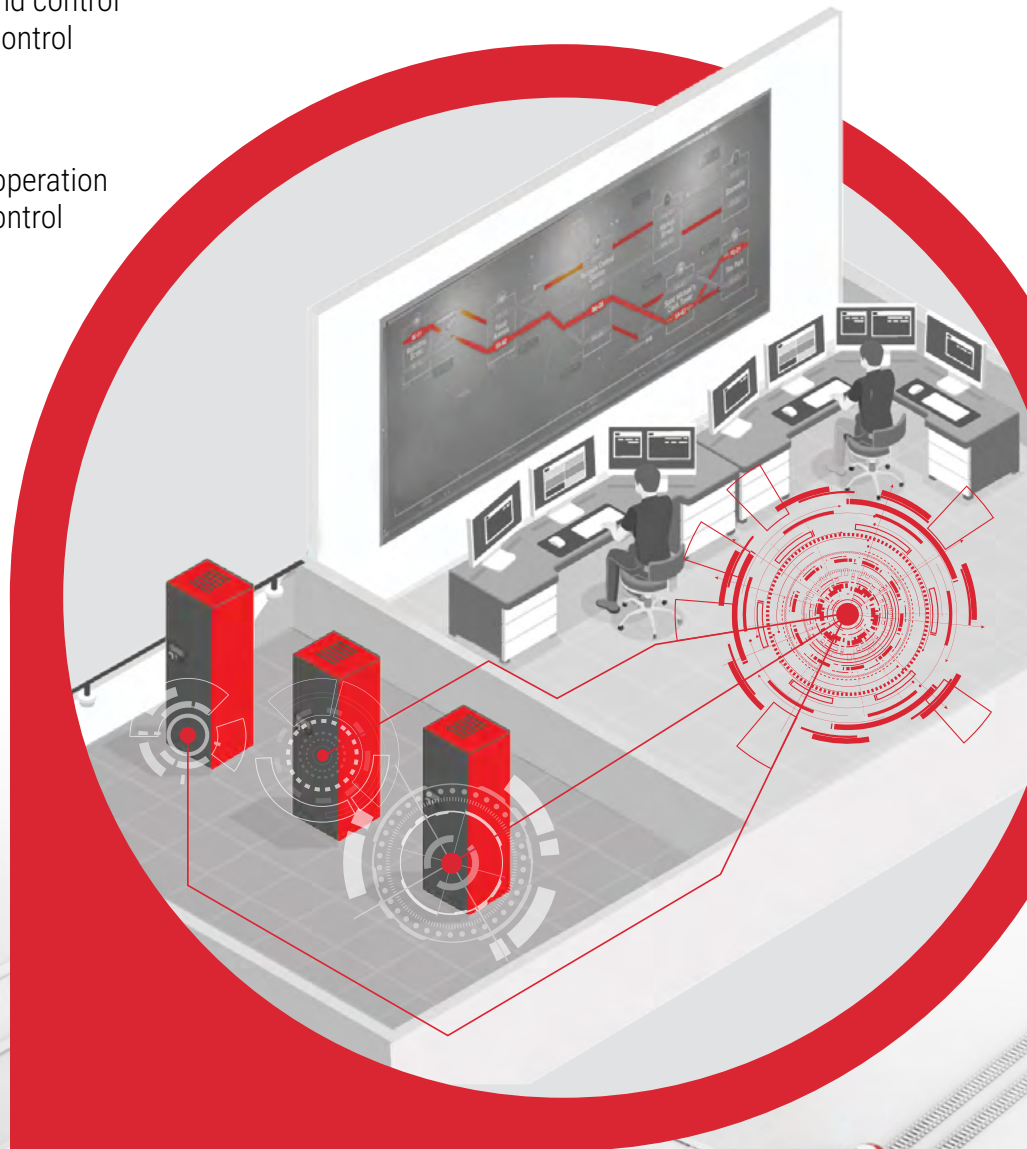
TEMPERATURE



HUMIDITY



DIGITAL INPUT





**1 SMART FAN TRAY:**  
**Temperature Controlled with Remote Management**

- Predictive maintenance: Set alarm thresholds of fan speeds to identify fans starting to lose rotation speed
- Remote control and monitoring through ethernet and the SCHROFF Guardian Management Gateway web interface
- Energy efficiency by temperature-controlled fan speed
- Adjustable acoustic noise/cooling through fan curve adjustment
- 10713-554: (standard part number)

Please scan the QR code for more information

**2 GUARDIAN MANAGEMENT GATEWAY:**  
**Data Center Environmental Monitoring Platform**

- Sense, track, store and alarm health and security parameters in trackside data centers and technical rooms
- Compact design, fits anywhere in a rack
- Web browser GUI for setup, monitoring and maintenance
- Three management ports to connect external sensors and Modbus devices
- Up to 16 sensors per management port with a total cable length of up to 40 m
- Auto orientation LCD touch display
- Supports industry standard network protocols (HTTPS, SNMP, SMTP, BACnet, Redfish, Modbus/TCP and HPI)
- 11079-000 (Standard part with Input Voltage DC: 12 V min)
- 11079-001 (Standard part with input Voltage AC: 100 – 240 V)

Please scan the QR code for more information

**3 SENSORS:**  
**Enabling Additional Condition Monitoring**

- 21070-120: THD (Temperature, Humidity and digital input Sensor)
- 21070-121: (Temperature, Humidity Sensor)
- 21070-122: (Temperature Sensor)
- 21070-123: (Digital Input Sensor)
- 21070-125: (Digital Input Sensor with 12 V Power Supply)
- 21070-124: (Digital Output Sensor)



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