



RF Code Data Sheet

Wire-Free Network Monitoring

KEY FEATURES

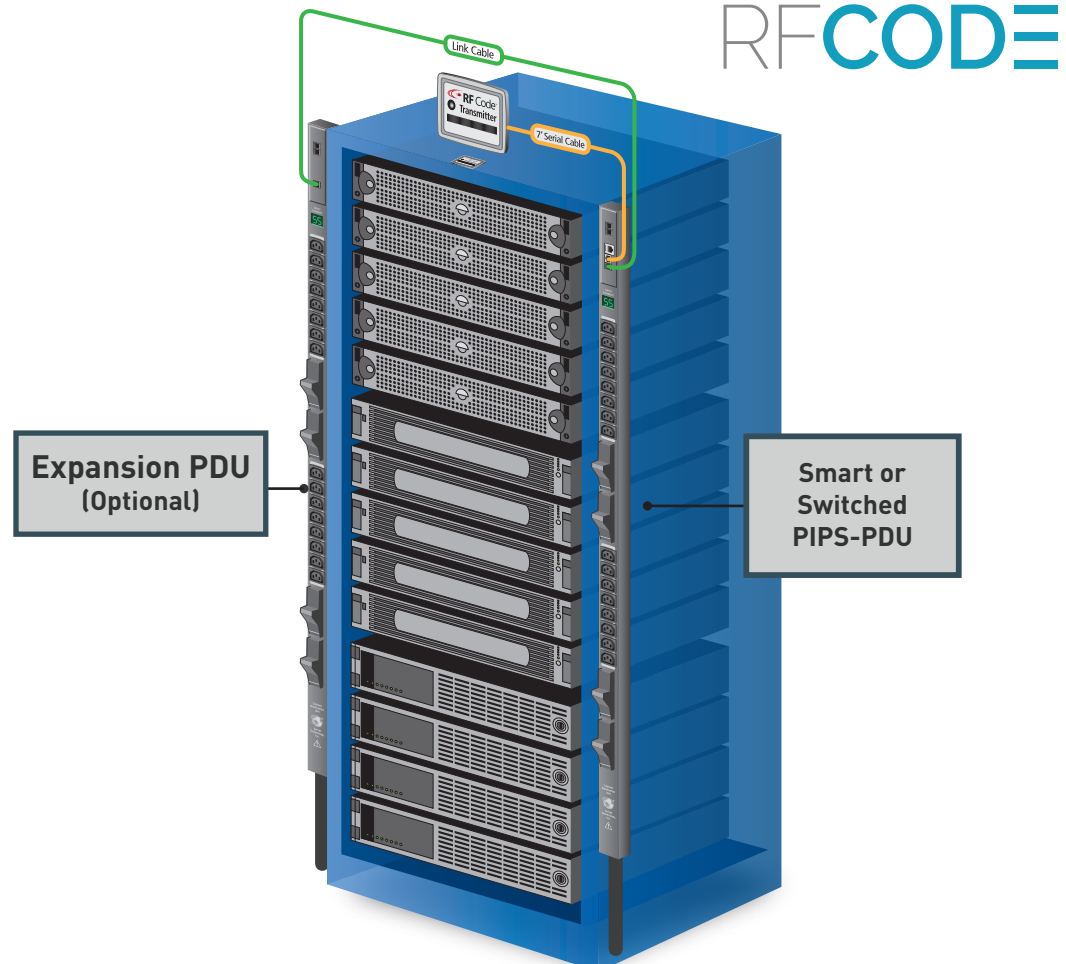
- Ability to communicate power information via RF Code Sensor Tags
- Save on IP address costs with wire-free technology
- Provide power information per inlet (in-feed), phase or power outlet (device)
- Works in conjunction with RF Code's environmental and device monitoring/tracking ID tags
- Provides alerts if an over-current protection device has tripped or thresholds are exceeded
- Provides an alert upon any user initiated outlet status change (On/Off/Reboot)
- Redundancy-Provides power and environmental information simultaneously via wired network connection and via the RF Code wire free sensor
- Plug and Play Tag Installation
- Compatible with New PRO Series products

Integrated Power Information into RF Code's Wire-Free Monitoring System

Via an active RFID tag, power information and alarms can be sent by RF Code's wire-free monitoring system from Server Technology's cabinet power distribution units (PDUs). Power information includes per inlet (in-feed) power sensing (PIPS) and device level power information via per outlet power sensing (POPS) PDUs. Smart or Switched PDUs that have per inlet (in-feed), phase power sensing (PIPS) and with or without POPS are required for this solution. PDUs can be provided as all Master units or implemented in pairs as Master/Link units or multiple link units with one tag required per Master PDU.

Tags plug into the Master PDU's serial port and are automatically recognized upon installation, providing plug-and-play operation.

Wire-free monitoring greatly reduces the number of IP addresses and lowers installation costs while still providing reliable power monitoring information.





Technical Specifications

Power Distribution Units (PDUs) Supported:

- CDU1 and PRO 1/2 Series Products
- Smart PIPS PDUs with or without POPS
- Switched PIPS PDUs with or without POPS (no outlet control via wire-free)
- All master or master/link units

General Information Provided:

- PDU model number
- PDU serial number
- PDU is not communicating to the tag
- PDU loss of communications with master unit
- PDU loss of communications with link unit
- Lost packet information
- Whether the PDU is a master or link unit
- Whether the PDU is a PRO1 or PRO2 Series
- PDU Manufacture Date
- PDU Asset Tag
- PDU Firmware Version

Alarm Information Provided:

- Low tag battery
- Unit status
- Outlet status
- Over current protection device breaker/fuse is tripped and which in-feed/phase it is located on and whether it is the master or link unit
- High in-feed load (80% or more of capacity) and which in-feed/phase it is located on and whether it is the master or link unit
- Overloaded in-feed line and which in-feed it is located on and whether it is the master or link unit
- Branch Current Status
- Line Current Status
- Notification of user-initiated outlet status changes (On/Off/Reboot)

Power Information Provided:

- Per Phase Voltage (V)
- Per Phase Amperage (A)
- Per Phase Watts (W)
- Per Outlet Watt-Hours
- Per Outlet RMS Amperage
- Phase Watt-Hours
- In-feed RMS Amperage

Computed Attributes in RF Code Center Scope:

- Total Power of Phases in Watts
- Total Power of Phases in Volt-Amps (V-A)
- Total Power of Phases in Watt-Hours
- Total Power of Phases in V-A-Hours
- Time Stamp for Power Accumulators

For Each Phase:

- RMS Voltage Phase to Neutral in Volts
- RMS Voltage Line to Line in Volts
- Phase Configuration (L-L or L-N)
- Power per Phase in Watts
- Power Factor per Phase in Percent
- Power per phase in V-A
- Amperage per Phase in Amps
- Total Power in Watt-Hours
- Total Power in V-A-Hours
- Time Stamp for Power Accumulators
- Phase Status (on / off)

For Each Outlet:

- RMS Voltage per Outlet in Volts
- Phase Source per Outlet (L-L or L-N)
- Power per Outlet in Watts
- Power Factor in Percentage
- Power per Outlet in V-A
- Amperage per Outlet in Amps
- Total Power by Outlet in V-A-Hours
- Time Stamp for Power Accumulators
- Outlet State (On/Off)

For Each Line:

- Amperage per line in amps

For Each Branch:

- Amperage per Branch in Amps
- Total Count of OCPD/Branches

Power Reporting Intervals:

Per Phase Data

- 10 Mins for Master
- 20 Mins for Master/ up to 2 Links
- 30 Mins for Master/ 3 Links

Other data:

- 1 hour for Master
- 2 hours for Master/ up to 2 Links
- 3 hours for Master/ up to 3 Links
- Alarm Information Immediate

Tag Model Numbers:

- R170-0B02 Power Tags for CDU1 Series Products (FW Version 6.0n or higher)
- R170-0B07 Power Tags for PRO 2 Series Products (FW Version 8.0m or higher)

**Note: Some PRO1 products do not provide OCPD status or branch current measurement information. Contact STI for PRO1 product support information*

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