

Wire-Free Power Monitoring

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

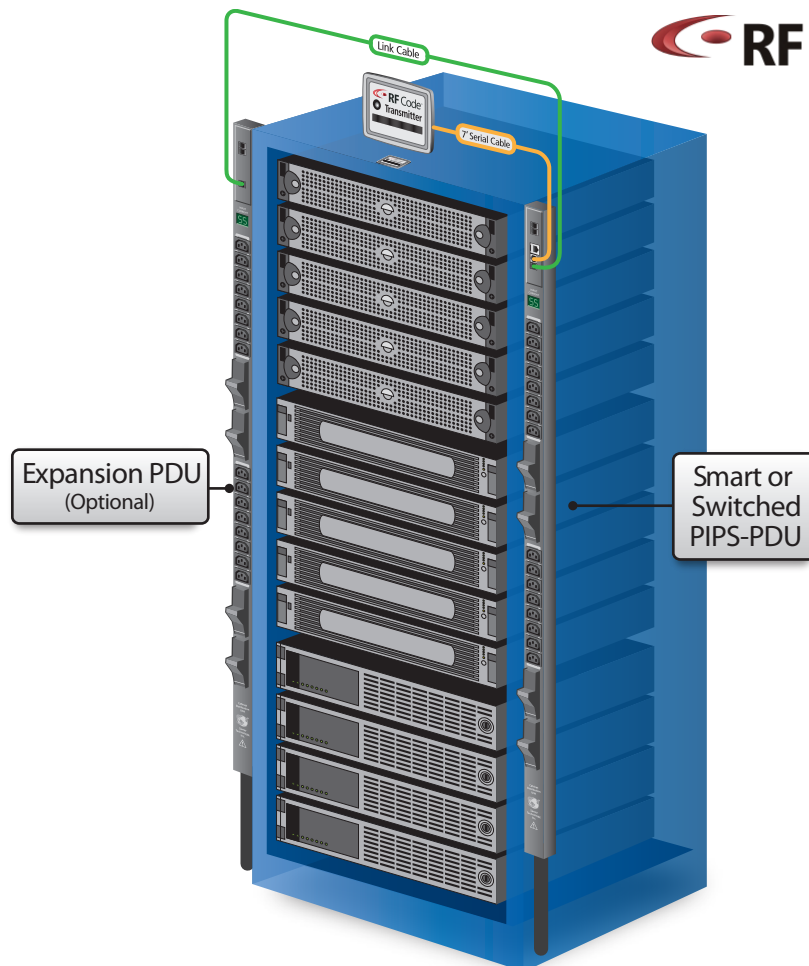
Via an active RFID tag, power information and alarms can be sent by RF Code's™ wire-free monitoring system from Server Technology's cabinet power distribution units (CDUs). Power information includes per inlet (in-feed) power sensing (PIPS) and device level power information via per outlet power sensing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

Tags plug into the Master CDU's serial port and are automatically recognized upon installation.

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

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

Technical Specifications

Cabinet Power Distribution Units (CDUs) Supported:

- >Smart PIPS CDUs with or without POPS
- >Switched PIPS CDUs with or without POPS (no outlet control via wire-free)
- >All master or master/link units
- >Requires FW version 6.0n or higher

General Information Provided:

- >CDU model number
- >CDU serial number
- >CDU is not communicating to the tag
- >CDU loss of communications with master unit
- >CDU loss of communications with link unit
- >Lost packet information
- >Whether the CDU is a master or link unit

Alarm Information Provided:

- >Low tag battery
- >Over current protection device breaker/fuse is tripped and which in-feed/phase it is located on and whether it is the master or slave 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
- >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 Sensor Manager:

- >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

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

Power Reporting Intervals:

Per Phase Data

- >10 minutes for Master/ 20 Minutes for Master/Link

Other data:

- >1 hour for Master / 2 hours for Master/Link
- >Alarm Information Immediate



HEADQUARTERS - NORTH AMERICA
RF Code
9229 Waterford Centre Blvd.
Suite 500
Austin, TX 78758
512.439.2200 Tel
512.439.2199 Fax
info@rfcode.com
www.rfcode.com



Server Technology

HEADQUARTERS - NORTH AMERICA
Server Technology, Inc.
1040 Sandhill Drive
Reno, NV 89521
United States
1.775.284.2000 Tel
1.775.284.2065 Fax
sales@servertech.com
www.servertech.com
www.servertechblog.com

EMEA
Server Technology Intl
Sienna Court
The Broadway
Maidenhead
Berkshire
SL6 1NJ
United Kingdom
+44 (0) 1628 509053 Tel
+44 (0) 1628 509100 Fax
salesint@servertech.com

APAC
Server Technology Intl
37th Floor, Singapore Land Tower
50 Raffles Place
Singapore 048623
+65 (0) 6829 7008 Tel
+65 (0) 6234 4574 Fax
salesint@servertech.com