

How do I get extensive data from a rack PDU without connecting a computer?

APPLICATION NOTE ST Eye-001 | Apr 2014

Learn how the ST Eye mobile application allows you to monitor critical PIPS® and POPS® PDU power & environmental data directly from your compatible mobile device.^{1,2,3}



Typical Application

When physically in the data center I occasionally need an understanding of the power usage, among other metrics, when direct access to the PDU is not possible. This can happen when the PDU is located behind a locked door or in an uncomfortable hot aisle.

Right now, I am planning an installation of new IT gear into a rack and I need to be sure not to accidentally overload the PDU power circuit. I can get the minimum data needed, the amperage draw per phase, from the LEDs on the PDU. In that way I can ensure that upstream branch circuit protection doesn't trip. But, additionally, I am interested in the power draw of individual power supplies or devices as they are brought online for use.

How can I see:

- > Power Metrics: Amperage, Voltage, & Power Factor
- > Temperature & Humidity measurements
- > The PDUs IP Address & Serial Number

Our Solution

The solution is the Server Technology ST Eye Bluetooth application with compatible hardware.^{3,4} Using any Bluetooth capable PIPS PDU, simply plug in the ST Eye module and activate by pressing the discovery button or by scanning the QR code with the free mobile device application. For convenience a QR code label can be affixed to the cabinet so that direct access to the PDU is unnecessary. System information along with infeed, outlet, and sensor data can be easily accessed on the spot without touching the PDU.

¹ PIPS (Per Inlet Power Sensing) PDU required for ST Eye functionality

² POPS (Per Outlet Power Sensing) PDU

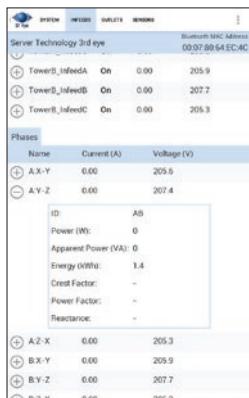
³ Apple iOS & Android only

⁴ See Technical Note for details

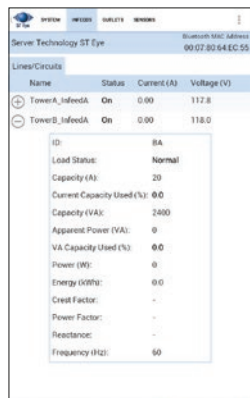
Remote Power & Environmental Monitoring of STI PDUs from your mobile device.

The quickest and easiest way to monitor your PDU at the cabinet level.

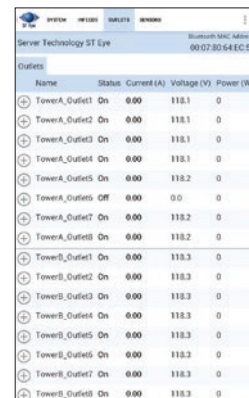
ST Eye is designed to allow easy access to power, system, and environmental information from Server Technology's PIPS PDUs. With ST Eye, there's no need to physically connect a computer to get information from the PDU. When your mobile device is connected to the wireless network the app will allow the user to easily access and log into the PDU, which may be located in a locked cabinet or an uncomfortable hot aisle, via its secure web interface.



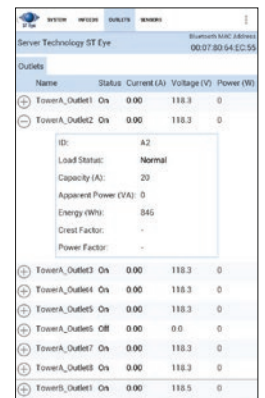
INFEEDS TAB: 3-PHASE



INFEEDS TAB: SINGLE PHASE



OUTLETS TAB: POPS OVERVIEW



OUTLETS TAB: POPS DETAIL

Key ST Eye Benefits:

- > The biggest, easiest-to-read LCD screen on any PDU is the one in your hand
- > Access to power and environmental measurements even behind locked cabinet doors
- > Avoid the "hot" aisle and still have access to measurements
- > Easy plug-and-play module enables access

Key Intelligent PDU Benefits:

- > PIPS® & POPS® high-accuracy measurements of current, voltage, power, etc...
- > Environmental measurements through plug-and-play probes
- > SNMP traps and email alerts
- > Master-Expansion linking allows single-IP access to the cabinet pair of PDUs

Interested in learning more about how ST Eye can help you wirelessly monitor your Server Technology PDUs, or for technical requirements, Visit us online at: www.servertech.com/products/accessories/st-eye



Server Technology
Quality Rack Power Solutions



Stay Powered



Be Supported



Get Ahead

HEADQUARTERS NORTH AMERICA

Server Technology
1040 Sandhill Drive
Reno, NV 89521
United States
Tel: +1.775.284.2000
Fax: +1.775.284.2065
sales@servertech.com
www.servertech.com
www.servertechblog.com

WESTERN EUROPE, MIDDLE EAST & AFRICA

Server Technology
Fountain Court
2 Victoria Square
Victoria Street
St. Albans, AL1 3TF
United Kingdom
Tel: +44 (0) 1727 884676
Fax: +44 (0) 1727 220815
salesint@servertech.com

CENTRAL EUROPE, EASTERN EUROPE & RUSSIA NIEDERLASSUNG DEUTSCHLAND

Server Technology
42119 Wuppertal
Germany
Tel: +49 202 693917 x0
Fax: +49 202 693917-10
salesint@servertech.com

APAC

Server Technology
Room 2301, 23/F, Future Plaza
111-113 How Ming Street,
Kwun Tong, Hong Kong
Tel: +852 3916 2048
Fax: +852 3916 2002
salesint@servertech.com