DON'T ROLL A TRUCK!

Reduce service calls & improve customer satisfaction with BlueBOLT® Remote Power & Energy Management - as easy as 1-2-3.

1. Install

Install a BlueBOLT® enabled component and connect it to the Internet.

2. Log-in

Log in to your free account at www.mybluebolt.com and claim your component.

3. Control

Reboot locked up components from anywhere and anytime.

"This has the potential to save us $500 for every service call..."

"I set up three BlueBOLT Devices (one MB1500 UPS/Battery Back-up and two M4315-Pro Power Management/Surge Protectors) for a new customer in Crown Point, about 1 1/2 hours away—not during rush hour. This has the potential to save us $500 for every service call to this customer if all we have to do is power cycle a device to fix an issue."

Robert MacDougall,
Abt Electronics, Glenview, IL

BlueBOLT®

REMOTE POWER & ENERGY MANAGEMENT TECHNOLOGY
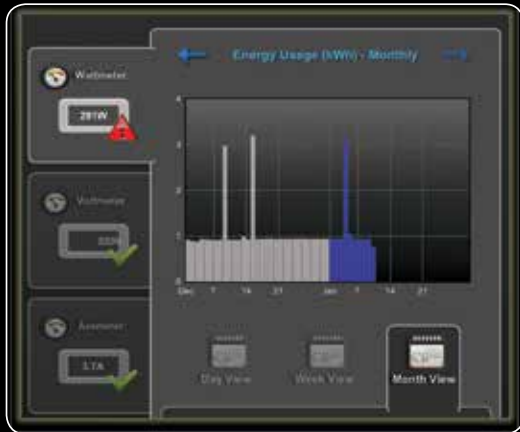
Save Time. Save Money. Save Energy.

BlueBOLT® Remote Power and Energy Management provides real-time, cloud-based control and monitoring of the energy used by electronic devices. From easy reboots of locked-up electronics to comprehensive energy tracking and scheduled conservation, BlueBOLT provides a unique combination of control and monitoring directly at the electronics' power source.

The Power of Control - Anywhere in the World.

Electronics plugged into a BlueBOLT-enabled component can easily be rebooted with the click of a button through BlueBOLT's easy to use, cloud-based user interface, from any web-enabled device, from anywhere in the world.

Go Green with Scheduled Conservation.

Standby power (sometimes called "vampire power") - the power used by electronic devices when they are turned off - is often identified as one of the biggest wastes of electric power, adding up to more than $3 billion of annual energy costs in the U.S. alone*. BlueBOLT's Scheduled Conservation allows the user to automatically shut off all power to electronic devices during non-use hours - providing a real-world solution to reducing energy bills and the impact on the environment.

* Source: http://www.economist.com/node/5571582?story_id=5571582

Tame Your Customer's Router.

With BlueBOLT, you can assign outlets to automatically reboot once an active Internet connection is lost – completely automating the all-to-common procedure of re-establishing an Internet connection with a hard reboot.

Setup in Minutes.

BlueBOLT's cloud-based communications provides an incredibly easy setup procedure. You can immediately register it and begin monitoring and controlling from your computer, tablet or smartphone: no static IP addresses or port forwarding needed. If desired, BlueBOLT-enabled power management components may also be accessed via standard Telnet communications or integrated into a home automation system via RS-232.

ADVANCED CONTROL FOR

M4315-PRO

Power conditioners and surge protectors
typically don't get much fanfare, but when you
combine top of the line Linear Noise Filtration, Automatic Voltage
Monitoring and catastrophic surge protection (Protect or Disconnect™) into such
an advanced power controller, it really becomes the most important component in the rack.

ADVANCED LOCAL CONTROL

BlueBOLT® not only allows installers to control their customers systems through the cloud but the M4315-PRO also allows local system control. It's simple to use!

Front Panel Reboot Buttons

REBOOT 1 & 2: Each button is discrete. Press & hold either button for two seconds to initiate a "reboot" sequence of Outlet #1 or #2 (default Profile 1). Press & hold both buttons for two seconds (called the Green Button) to initiate a full power-up or shutdown sequence. This can be used for customers going on vacation, who do not wish to access BlueBOLT® to power their unit down, while still leaving the system controllable. The front panel outlet is always on, unless the circuit breaker is switched to OFF (which also disallows any control). Refer to the custom sequencing section for changing these reboot and startup/shutdown timings.

Custom Sequencing Profiles

The M4315-PRO has four, start up or shutdown, preset profiles to choose from via the front panel interface. Profile 1 is the default profile (P1). One personal profile (PP) may be custom programmed via telnet. Using this custom sequencing ability, the programmer can set a personal profile (PP) of outlet timings using any of the four mentioned triggers: (1st - 12V), (2nd - Reboot 1), (3rd - Reboot 2), or 4th (Green Button). This is vital for larger custom systems, commercial applications, or control systems.

Rear Panel 12V Trigger Input

The 12V trigger input can switch on pair of outlets (default Profile 1) or initiate an on/off sequence depending on the configuration. It functions as an input trigger (to be controlled) 3.5mm mono tip-ring ± (5-24 VDC).

Command Line Telnet Interfacing

All of our BlueBOLT® products can utilize the power of simple to use hosted-remote access, while allowing simultaneous local control via an automation system or computer with a telnet protocol or TCP/IP. Port 23 is also open by default.

SAMPLE TEXT COMMANDS & QUERIES: M4315-PRO

!ALL_ON<CR>

SET_TRIGGER 7 BUTTON_1<CR>

!REBOOT_2<CR>

!SET_FEEDBACK ON<CR>

?OUTLETSTAT<CR>

?POWERSTAT<CR

$TEMPERATURE = status<CR>

CONTROL SYSTEMS MODULES (SOLUTIONS)

BlueBOLT products can be controlled via the cloud, while simultaneously responding to local commands from a control system via TCP/IP.

Automation and control manufacturers have designed interfaces utilizing this local two-way control while leaving the BlueBOLT cloud-based control simultaneously available. These preprogrammed modules or drivers allow installers to perform a variety of locally automated tasks/macros ranging from basic energy management to system troubleshooting, all while allowing the cloud-based BlueBOLT platform to still control their systems remotely, providing incredible value.

PANAMAX/FURMAN CONTROL PARTNERS

For more information please visit www.mybluebolt.com/partners

Success from the Cloud

BlueBOLT® Remote Power and Energy Management provides real-time, cloud-based control and monitoring of the energy used by the electronics at your installations. Simply plug into a BlueBOLT-enabled power management component to open up a new world of command and visibility of your power. From easy reboots of locked-up electronics to comprehensive energy tracking and scheduled conservation, BlueBOLT provides a unique combination of control and monitoring directly at your electronics' power source.

From saving your clients money on their utility bills to improving your customer service, BlueBOLT can provide your business with a solution that will not only make your customers happier, but will improve your bottom line.

AT A GLANCE

Product Focus

BlueBOLT® Remote Power & Energy Management Platform

Industry

Systems Integration (Residential/ Commercial)

Implementation Partners

Saint Louis University
Paul Murdick, TSI Global (Integration firm)
Mike Capalety, Capalety Digital (Integration Firm)
Evan Marty, Paragon Technology Group (integration Firm)
Jason Barth, The Premier Group (Integration Firm)

Key Challenges

- **Reduce Service Calls -** Demonstrate improved customer service with immediate response capability.

- **Cost Savings -** Show quantifiable cost and time savings by utilizing remote system management.

- **Improved System Integration -** Illustrate ease of set-up and use via cloud based platform for A/V or control/automation system integration.

Implementation Highlights

- Energy management features allows clients to log and monitor overall system energy consumption, greatly reducing operational costs.

- Ability to hard reboot problem equipment to troubleshoot and resolve system issues without an in-person service call saves costs and time.

- Service issues in general are handled more efficiently, providing a greater level of convenience for clients.

- Ability to power down equipment when client's homes are unoccupied results in utility-bill savings along with prolonged equipment life.

Key Benefits

- Simple, easy to use cloud based platform to monitor and control power within client install locations.

- Faster response time to service calls, maximizing overall efficiency and client satisfaction.

- Reduced operational costs and environmental impact due to decrease in truck rolls and time spent on the road.

Remote Power & Energy Management

Case Study 1: BlueBOLT® Makes The Grade At SLU
Client: Saint Louis University
Integrator: TSI Global

SLU is a Catholic, Jesuit university ranked among the top 100 institutions in the United States. Founded in 1818, it is also the oldest university west of the Mississippi and the second oldest Jesuit university in the nation. In 2010, the University made the decision to retrofit 17 of its older classrooms with the latest A/V technology, including new projectors, control systems, audio mixers, video switchers, and even a 5×5 video wall as the centerpiece of one room on its medical campus.

> "With BlueBOLT®, we receive notifications in the event of a power issue at one of these high-profile teaching spaces, and have the ability to respond immediately."
>
> Paul Murdick
> Vice President of AV for TSI Global

"For SLU, system reliability was a key factor for the upgraded classrooms," noted Paul Murdick, vice president of AV for integration firm TSI Global. "Not only did new equipment require protection from power anomalies, but the University needed to be able to respond quickly to minimize any potential downtime, all while keeping operational costs at a minimum."

Panamax BlueBOLT-enabled M4315-PRO's are integrated with Crestron Control Systems at SLU to facilitate local and remote power control and monitoring.

Each of the 17 revamped classrooms features one M4315-PRO, enabling SLU to manage all components on an individual level, while also monitoring how much power is being drawn across the system.

"While Panamax/Furman is renowned for their power protection, what really set the M4315-PRO apart for us is its BlueBOLT capability. With BlueBOLT, we receive notifications in the event of a power issue at one of these high-profile teaching spaces, and have the ability to respond immediately by power cycling equipment remotely from another office," said Nathan Burge, senior multimedia support analyst at SLU. "In addition, its energy management features allow us to log and monitor overall system energy consumption, helping us to reduce operational costs."

"The M4315-PRO was an easy choice for this project with its advanced functionality and Panamax's reputation for reliability — all at a low cost," added Burge. "The classrooms have recently been completed and the units have performed flawlessly, with staff reporting that the BlueBOLT interface is extremely simple to use. It's been such a success that we intend to include an M4315-PRO in each new classroom we build."

Case Study 2: BlueBOLT® Eases The Pain Of Utility Bills
Client: Chiropractic Office, Colorado
Integrator: Capalety Digital Media

BlueBOLT's menu of scheduled conservation commands allow integrators or their clients to schedule times for electronics to shut on and off. Since the commands are sent to the outlet on a BlueBOLT-enabled power conditioner instead of the component itself, this provides several exciting applications to optimize a system and reduce operating costs. Periodic hard-reboots on equipment such as modems, routers, automation controllers, and other networked devices can substantially reduce equipment lock ups and optimize system performance. Additionally, shutting electronics off at the outlet level completely eliminates any energy waste during off hours, whether the waste is from electronics that are left on at night, or from devices that go into standby mode. Integrator Mike Capalety discovered first-hand the impact BlueBOLT can have: "We used BlueBOLT products in a light commercial

Capalety Digital Media realized significant energy savings by installing BlueBOLT with X-Ray machines and other diagnostic medical equipment.

installation of a medical office," explained Mike. "This particular client is a chiropractor whose offices are open 5 hours a day, 4 days a week. Because it would take so long for equipment to power up in the morning, they needed to leave everything on 24-7. Equipment such as spinal decompression machines, X-Ray machines, and large video panels consume a tremendous amount of electricity even while not in use. By using BlueBOLT's scheduled conservation features to power equipment down during off hours and bringing it back online an hour before the offices open - along with implementing some best practices in shutting down computers and ancillary equipment around the office - we have been able to realize significant energy savings without disrupting workflow. In fact, this client is now paying nearly $1000 less to their utility bill every single month."

With BlueBOLT, the integrator was able to install a system that paid for itself in a matter of months, shows continued ROI, and reduces the business' impact on the environment.

Case Study 3: BlueBOLT® Brings The Cloud To Aspen
(Reprinted from Residential Systems, April 2011)
Clients: Residential homeowners, Colorado
Integrator: Paragon Technology Group

Paragon Technology Group utilizes BlueBOLT to monitor power and conserve energy in client's Aspen vacation homes.

At winter resort towns high in the Colorado mountains, homes are often unoccupied for several months of the year. And it might happen that an owner leaves without turning off energy-sapping devices or discovers that a modem-based monitoring system has failed because of a temporary brownout. Reacting to such needs, Paragon Technology Group, an Aspen-based electronic systems integrator, has installed a number of systems using the new cloud-based Furman BlueBOLT power-management and monitoring system.

"One of the main reasons we needed a solution like BlueBOLT is because houses here are often vacant for extended periods of time," said Paragon CTO Evan Marty. "We want to allow our clients to easily turn off non-essential loads in their houses while they are away. Using BlueBOLT in conjunction with a control processor, we enable clients to shut down systems from within the house, as well as from an iPhone or via the web. Turning off equipment for long periods of time can save on both equipment and electricity." Marty said that Paragon chose BlueBOLT because its web hosting is handled off-site, which allows his firm or the client to interact with the devices without punching holes in firewalls or worrying about their network security. "All connections via The Cloud are protected, and we can develop lower-tier access for customers that want to cloak or restrict certain functions, for example, from guests. The ability to interface these devices via IP or RS-232 connections is a definite advantage." In addition to its Aspen showroom, Paragon operates regional offices in Denver and three other Colorado locations, as well as Nashville, so it knows first-hand about remote communication needs.

Home entertainment systems are more sophisticated and connected than ever before and with this complexity comes a higher chance for electronic lockups, freezes, and crashes. All too often, the only fix is to unplug the unit from the wall and plug it back in (aka the "hard reboot.") "Electronics plugged into a BlueBOLT-enabled component can easily be rebooted through its Cloud-based user interface from any web-enabled device located anywhere in the world," Marty noted. "Our first clients are very happy with their BlueBOLT systems," said Paragon Technology Group's Marty.

"We are able to monitor and power down equipment when their home is unoccupied. Utility-bill savings will realize a return on investment, along with prolonged equipment life. It's a win-win situation all round."

Case Study 4: BlueBOLT® Takes The "Call" Out of "Service Call"
(Reprinted from CustomRetailer, June 2011)
Clients: Residential Homeowners, Indianapolis
Integrator: The Premier Group

Premier Group ensures the highest level of customer satisfaction by using BlueBOLT-enabled products to immediately resolve system issues.

The Premier Group is a nationally ranked, top-tier professional custom electronics design and installation firm. Recently, Jason Barth, the company's lead designer and CEO, began tracking how many of the company's service calls could be resolved simply by helping a client reset something.