

BERTBrain™

Intelligent Plug Load Management Software
Powered by the BERTBrain Gateway

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BERTBrain device overview (demo data)

BERTBrain is BERT's cloud-connected or on-premises software platform that puts facility managers in full command of their plug load ecosystem. Running on the BERTBrain Gateway, BERTBrain provides a unified dashboard for organizing devices, building intelligent schedules, and generating the energy reporting needed to verify savings, support program documentation, and benchmark performance over time.

BERTBrain delivers the visibility and control to save up to about 50% of the energy used by the devices BERT controls.

Key Benefits

UP TO ABOUT 50% energy savings on the devices BERT controls	One Interface Centralized control of all BERT devices from a single interface	Measured Savings Device-level measurement of actual savings
Existing Controllers Works with existing BERT plug-in and inline controllers (BERT confirms your site's models)	Reports for Review Baseline and savings reports that support incentive-program and ESCO review	Schedules Keep Running Approved local schedules continue when cloud connectivity is unavailable

Core Software Capabilities

Energy Reporting, Benchmarking & Savings Analysis

Access comprehensive energy consumption data across any device, group, or time period. BERTBrain's analytics engine transforms raw metering data into actionable intelligence:

- **Consumption Reporting:** daily, weekly, monthly, yearly, and user-defined periods for any device or group
- **Savings Analysis:** quantify kWh and cost reductions attributable to plug load controls, with before/after baselines
- **Benchmarking:** compare energy performance across buildings, floors, departments, or device classes to identify outliers

Controllers report every 30 seconds by default (adjustable from 1 to 999 seconds), so your team sees live device data alongside daily, weekly, monthly and custom reports.

Multi-Site Portfolio View

BERTBrain brings every plug-load location into one interface, so your team can see consumption and savings rolled up across every building and campus, and manage energy conservation across the whole portfolio rather than building by building.

Plug Load System Health & Monitoring

Maintain full visibility into the operational status of your entire plug load management infrastructure. BERTBrain continuously monitors device connectivity, control responsiveness, and communication integrity, surfacing issues before they create gaps in energy management. Real-time alerts and status dashboards give facility and IT teams the information needed to keep the system performing at peak efficiency.

- **System health dashboard:** every device's status at a glance, from campus to building to room, including any device that isn't communicating.

Flexible, Intuitive Device Grouping

Organize devices into logical groups that mirror the way your organization operates. Groups can be created and layered across multiple dimensions simultaneously, providing maximum scheduling and reporting flexibility:

- **By Location:** campus, building, floor, wing, or room
- **By Device Type:** computers, monitors, printers, lab equipment, AV systems, or any custom category
- **By Organizational Unit:** department, tenant, cost center, or project

BERT sets up your groups, and your team can control a whole group at once.

Secure Connection & Cloud Backup

Every connection starts at the gateway: no inbound ports, no port forwarding. In a cloud-connected system, BERT keeps a backup of your setup (which controller runs which device, the schedules and settings) and energy data, so a replacement gateway can be restored on site without reprogramming your controllers. Controllers keep running their own schedules in the meantime, and each stores up to 14 days of readings and sends them once the gateway is back.

Intelligent Device & Group Scheduling

Define automated on/off schedules for any individual device or group. Schedules support daily, weekly, or custom recurring patterns and can be applied at any organizational level, from a single outlet to an entire campus.

- **Manual Master Control:** Authorized users can also switch every BERT-controlled device on at once (for a special event or a testing pass) or off at once (for a snow day or an extended closure).

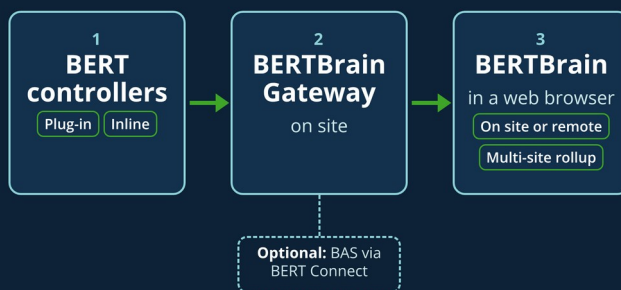
Standalone or With Your BAS

BERT works standalone or alongside an existing building automation system through BERT Connect (BACnet/IP) when your project includes it.

Device Naming & Location Management

Assign meaningful names and physical locations to every BERT controller, plug-in or hardwired, within the platform. Map devices to their exact position within a facility (by floor, room, zone, or workstation) so any team member can identify, locate, and manage an individual outlet instantly without consulting a separate floor plan or spreadsheet.

Every device is named and grouped at setup (by type, room, building and campus), and that can change at any time: renaming, regrouping or reassigning a controller to a different device. Your authorized users can make the changes themselves after training, or BERT can handle them as part of ongoing support.



HOW IT CONNECTS

Controllers report to the BERTBrain Gateway; you manage everything from BERTBrain in a web browser. Optional: connect to a building automation system through BERT Connect.

Platform Specifications

Deployment	Cloud-Connected or On-Premises	Data Storage	Unlimited (server); 14-day controller log, restored after outages
Host Hardware	BERTBrain Gateway	Reporting	Daily, Weekly, Monthly, Yearly, Custom
Interface	Web Browser (HTTPS)	Data Export	Excel, PNG, PDF
Cloud	AES-256 encrypted	Updates	Auto (cloud); Manual (on-prem)
Access Control	Role-Based User Accounts	Alerts	Real-time (cloud); Limited (on-prem)
Reporting Interval	30 s default (1–999 s)		

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