

COPPERCUBE

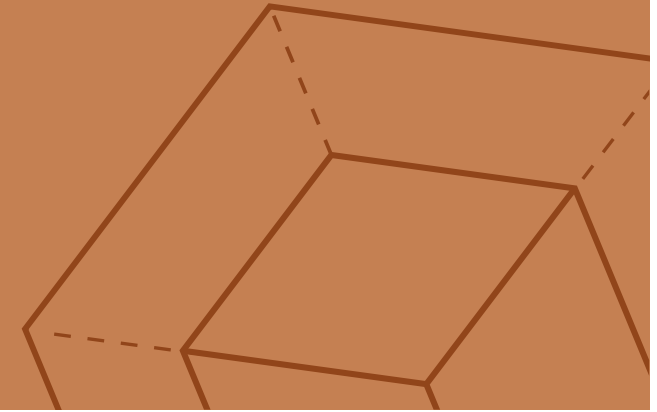


COPPERTREE
ANALYTICS
Realize building potential

A seamless solution putting you **IN CHARGE**



CopperTree Analytics provides energy management and Fault Detection and Diagnostics (FDD) as a software as a service, giving you the power to optimize your building's performance and continuously improve it.

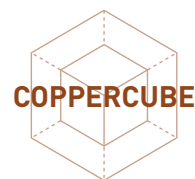


ACQUIRE • ANALYZE • ADVISE

Our three step method provides a seamless solution to put you in full charge of the efficiency of your building, allowing you to save money, lessen environmental impact and improve tenant satisfaction.

With CopperTree, you get real-time insight and we have established a network of expert Building Automation System (BAS) integrators who can help you act on CopperTree's insights to make sure your building is working perfectly.

THE COPPERTREE SYSTEM



Data collected from intelligent Building Automation Systems is stored here and fed to secure cloud storage.



Trendlog and controller databases backup data which is stored securely and is constantly updated.



Advanced algorithms in the Analytics Engine process the data into alerts and advisory reports which you can view via email or on your personalized dashboard.

MEET COPPERCUBE



As an integral part of our **Acquire, Analyze, Advise** system, **CopperCube** is the hardware component of the CopperTree solution.

Manufactured by Delta Controls, CopperCube is the site level element of CopperTree's product system.

This native **BACnet**® device searches your BAS network to locate all BACnet trendlogs and archives those trends in its internal database providing redundant and long-term storage of your building's valuable information.

As owner of the **CopperCube**, that information is yours, independent of any additional subscription based services you receive.

Beyond acting as an on-site trendlog archive, the CopperCube provides the gateway to **CopperTree's cloud-based Kaizen** software package. This enterprise level analytic service can provide advanced fault detection, energy analytics and more.



FEATURES



Native BACnet communications



Built-in web user interface for feedback, operational status and configuration



Internal storage of trendlog data



Configurable auto backup to external storage device supports manual update at any time



Optional SQL connection



Firmware auto-update capability

HARDWARE SPECIFICATIONS



The **CopperCube** offers a flexible platform to add into your existing Building Automation System.

Technology

Intel® Atom™ D2550 processor

Communication Ports

(2) Gigabit Ethernet¹

(2) RS-485

(2) RS-232

(4) USB

Video Ports

HDMI

DVI

Wiring Class

NEC Class 2

Power

24 VAC or

15-28 VDC

Ambient

0° to 55°C (32° to 131°C)

10-90% RH (non-condensing)

Connectors

Screw-type terminal connectors

Dimensions

19.2 x 13.5 x 6.8 cm (7.6 x 5.3 x 2.7 in.)

WEIGHT

1.13 kg (2.49 lb.)

Mounting

35 mm horizontal DIN rail

Flat surface mounted with included rubber feet

Compliance

CE-EMC Directive 89 / 336 / EEC

FCC Class B

Listings

C-UL

UL 916



¹ One Ethernet port for BACnet networking; one for connection to the web server

The screenshot displays the CopperTree Analytics web interface. At the top, there is a navigation bar with the CopperTree Analytics logo and several menu items: Status, Archiver Data, Settings, API, and Login. Below the navigation bar, the main content area shows the title "University of Peace Forest Device Backups" and a small status icon. The interface is divided into several sections:

- System Information:** A table showing current time (2013-09-16 10:02:10), last reset time (2013-09-14 13:25:43.24), and version (1.3.616).
- Hardware Status:** A table showing archiving status (Running), internet latency (21.0 ms), CPU usage (10%), memory usage (10% (791MB) used of 8030MB), and storage usage (2% (5.4GB) used of 295GB).
- Archiver Queues:** A table showing data collector counts for Active-Scheduled (23), Excluded due to Errors (0), Delayed/Currently Offline (0), and Newly Discovered (0).
- Connector Statistics:** A table showing transmission volumes to CopperTree servers, including trends, objects, events, and backups created today.

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USER INTERFACE



Through a built-in **web-based user interface**, you can confirm operational status and manage your trendlog data.



Status logs show clear and concise information about any faults which may have occurred and can be configured to email maintenance staff to act on those faults.

The **CopperCube** can be configured to auto-prune each trend log's data to a specific duration, thus eliminating the need for maintenance and deleting data which has outlived its usefulness.

An optional **SQL connector** will route the same trendlog data to an external SQL database for use with 3rd party reporting tools while maintaining the integrity of the original information.



At CopperTree, we have 30 years of practical energy and building management expertise behind us, allowing us to bring you a SaaS solution to help you start saving energy now. Our passion is to empower you to take charge, by giving you the right tools to optimize building performance.

With CopperTree, you get more than just data presented back to you. Our system takes real time data and transforms this information into insight, unique to your building. This means you take back control of managing your resources – people, time and money – as you have the clarity you need to schedule the important and deal with the urgent, in the most efficient manner.

We understand that energy and building management presents a challenging and dynamic problem. With CopperTree, you get all the information and insight you need in one single platform, so you can be proactive in managing your building.

To find out what CopperTree can do for your building, visit our website at www.coppertreeanalytics.com.

Or contact your local distributor now:



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