

E³AC.IO™ EDGE ENERGY ECONOMIC

ANALYTICS CONTROLLER

Most advanced IAQ sensor with **Built-in Analytics** and **Clustering** features



E3 Analytics Controller

- eac.io™

When people say that we are living in the post-PC era they mean that the personal computer is being eclipsed as the center of the IT universe by the smartphone. Operations technology is experiencing a similar reordering. In this new era of the Internet of Things (IoT), compute resources equivalent to a PC or smartphone are being integrated into all sorts of equipment and devices. For commercial buildings, a new category of IoT device is emerging—the Energy Analytics Controller (EAC). Smart building applications development should revolve around the enormous possibilities of these edge devices.

Frameworks

- Sedona Framework (Realtime controls engine)
- EAC Engine *
 (Analytics to Optimization)
- SkySpark (Analytics Engine)

EMSTCOSS Edge Analy

Visualytik
 (Visual Analytics Dashboard)

Mobilytik

Consume haystack data on the go!

Analytics on the edge (device)

Anyone designing an IoT architecture must decide which tasks are best performed locally by a device at the network's edge versus remotely by a cloud-hosted application. Within the IT world, an edge device is defined as a gateway or global controller. Within the building automation world, a direct digital controller (DDC) can be considered an edge controller. Likewise, a global controller is an edge controller.

One of the most revolutionary aspects of having robust compute resources at the DDC level is that these edge devices can do analytics processing of large data sets. Application developers are challenged to make the most of this new capability. The Buildings-IoT represents an opportunity to radically rethink the software architectures that define core

* Work in progress workflows such as detecting and diagnosing faults in equipment, responding to occupant hot/cold calls, shifting energy loads to participate in demand response programs, and performing other building operations management tasks. Energy Analytics Controllers are capable of high-speed handling of the work involved in trending data, adding semantic tagging and generating analytics. Doing these tasks locally and sharing the results among other edge devices, opens the path to a host of new applications

Specifications

- 1 GHZ ARMTM 8 Processsor
- Debian Linux with Java 8
- SkySpark 3.0.16+
- 1GB DDR3 RAM
- 8GB pSLC SD Card aon-board flash storage
- extensible with industrial grade microSD
- Two 1 Gigabit Ethernet ports
- One USB 2.0 port / Wifi a/b/n
- RTC built-in

Power Input

• 24 VAC

Chassis

• **Height:** 70 mm (2.75 in)

• Width: 78 mm (3.0 in)

• Length: 160 mm (6.3 in)

Mounting Holes: 148.5 mm (5.85 in) Center

to Center

Weight: 1.2 lb

Environmental Conditions

• Temperature: 40 to 140 F (4 to 60 C)

Humidity: 10-90% Relative, noncondensing

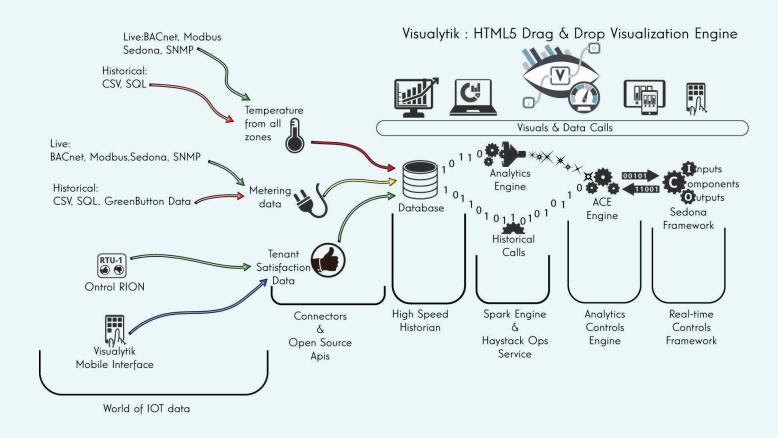
Storage Temperature: -10 to 150 F (-23 to 66 C)

Storage Humidity: 0-95% Relative, noncondensing

Agency listings

• FCC part 15 Class A.

Architecture



Models

	EAC-44	EAC-510	EAC-916	EAC-56V
Universal Input	4	4	7	4
Digital Input		1	2	1
Triac Output	4	4	4	4
Analog Output		2	4	2
Digital Output		4	8	
Bundled Soft Points	20	30	60	30

Ordering Information

DEVICES	EAC-44	EAC-510	EAC-916	EAC-56V
ANALYTICS	EAC-44	EAC-510	EAC-916	EAC-56V

POINTS	10	100	1000
ANALYTICS	eac.ankalytik.10	eac.ankalytik.100	eac.ankalytik.1000

^{*}Ordering in 10 point increments.

ONLINE ORDER SITES



bascontrols.com

CHECK OTHER PRODUCT FROM Ankalabs



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Sensor Specifications

- Co₂
- TVOC
- PM2.5
- Temprature
- Humidity

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