

Data Sheet

# VIAMI

## EASyCAP B3030

EAS Encoder/Decoder for Low-Power Broadcast

### Integrated, One-Box EAS Solution

The EASyCAP® Encoder/Decoder combines everything needed to deliver audio and video alerts in an integrated, one-box solution, including: EAS, CAP, local access messages, audio/video peripherals, control over serial and network based devices, interfaces for network management systems, and network protocols and interfaces.

The EASyCAP platform can receive all of the required alert messages and then control all of the devices necessary to deliver the messages to subscribers.

### Flexible, Powerful, Open Architecture Platform

This next-gen solution not only handles all of today's EAS requirements, but provides a flexible and expandable platform designed to accommodate requirements and features that may be needed in the future.

As CAP standards and FEMA requirements continue to evolve, the innovative VIAMI open architecture simplifies the process of making changes and adding new capabilities and features.

All software and firmware can be upgraded across the Network. The EASyCAP platform utilizes common interfaces such as secure web servers and SNMP, allowing standard tools to be used for management and monitoring.

### EAS Encoder/Decoder

Four input channels are provided to monitor for EAS messages. Three of the inputs are configurable as external audio or internal radio receivers.

All EAS inputs are decoded simultaneously and overlapping alerts are stored until they can be processed to guarantee that all incoming alerts are received and processed.

Multiple user interfaces are provided to allow operators to encode EAS messages: front panel touchscreen LCD, general purpose inputs, and secure Web Server.

### Key Features

- One-box integrated solution for EAS and CAP
- Flexible and expandable open architecture
- Network based alerting protocols
- Management via web browser
- Four audio inputs or three internal radios



## CAP

This next-generation EAS platform is in compliance with all of the IPAWS CAP standards. EASyCAP allows multiple sources to be configured for receiving CAP alerts.

Available CAP sources include: IPAWS Open Atom feed, ComLabs EMnet, AlertSense, Rave Mobile Safety, and Omnilert.

Additional interfaces can be added as they are defined and required by FEMA, the FCC, individual State plans, and individual operators.

## Automatic Weekly Test Generator

Required Weekly Tests can be configured to be automatically generated at random times each week.

## Custom and Local Access Messaging

EASyCAP provides the ability for local authorities to send alert messages (audio and video) to subscribers, and the ability for operators to send administrative or informative messages to subscribers. Custom text and audio can be configured with the message and then played back immediately, or saved for playback at a later time.

## Secure Web Server

A Secure Web Server (HTTPS) is the primary user interface, providing an intuitive, easy to use interface for management and monitoring, configuration, testing, calibration, and log maintenance.

## Touchscreen LCD

A touchscreen LCD provides EAS input indicators, alert playback status, network interface setup, and some operations.

## Audio

One radio receiver is installed that includes three radio receivers. Each radio receiver can be configured as AM, FM, or NOAA.

Four balanced audio inputs are provided for monitoring EAS. Each input can be configured to use an external audio source or one of the three internal radio receivers.

A balanced stereo audio switch is provided to internally replace program audio with alert audio.

Two balanced mono analog audio outputs are provided. These outputs can be connected to external audio distribution/switching equipment to replace program audio with alert audio.

Additionally, a second stereo audio switch can be optionally installed to allow for a total of two stereo audio paths.

An optional AES-EBU digital audio board can be installed to provide four channels (two pair) of alert audio in AES-EBU format. Internal switches are provided to replace the digital program audio with alert audio.

Text-to-speech is included to generate alert audio for text-only CAP messages, or if problems occur retrieving the audio resource. Custom and local access messages can have a voice message automatically generated.

## General Purpose Inputs and Outputs

Two general purpose inputs are provided to originate weekly tests, abort messages in progress, trigger alerts, and hold-off alerts.

Four general purpose outputs are provided to activate external distribution and routing equipment.

Network based general purpose output devices are supported to remotely activate outputs. The locations serviced by each output device can be configured so they're only activated when necessary.

## Ethernet Port

EASyCAP features an Ethernet port to allow connectivity to different networks. One 10/100/1000 BaseT Ethernet port is included on all units. Optional expansion communication boards can be installed to add up to two more 10/100 BaseT Ethernet ports.

One Ethernet port can be configured to face the internet for receiving CAP messages, a second port can be connected to the internal management network, and a third port can be connected to the video network.

## Network-Based Alert Protocols

EASyCAP provides support for virtually any network-based peripheral that accepts alert messages. Ask your sales professional for a complete list of supported protocols and equipment.

Location routing is used for all of the configured devices. Each configured device includes a list of locations so that equipment is only activated when necessary.

- DNCS/Evertz  
Supported by Cisco (SA) DNCS, Evertz Logo Inserters, Myrio middleware, and more
- SCTE-18  
Supported by MPEG Splicers, multiplexers, edge decoders, set-top boxes, and more
- Minerva Middleware  
Supported by Minerva ITvManager middleware, Nagravision, and more
- CAP HTTP Delivery
- DCM Splicer

## Serial Protocols

Two RS-232 serial ports are included with all units. Additional RS-232 ports can be added on an optional expansion communications board. A variety of serial protocols are supported to control external character generators, sign boards, logging systems, and other equipment.

## Network Management Systems

SNMP and syslog is supported for network management systems to monitor the status and health of the hardware and software, monitor incoming and outgoing alert messages, and provide a limited amount of control to abort and originate messages.

## Email

Status information, system errors, alert activity, delivery errors, and weekly logs can be emailed to a list of configured recipients.

## Available Configurations

Model	Part Number	1 3-Radio Card	COM Expansion	AES/EBU Audio
EASyCAP B3030	2010016001	S	O	O

S = standard feature    O = optional feature

## Specifications

Chassis	2U RU chassis with 3.5" color touchscreen LCD and Speaker
Communications	(2) RS-232 serial ports available on male DB-9 connectors (2) USB ports (1) 10/100/1000 BaseT Ethernet port available on USB/RJ45 combo jacks
Audio	(4) balanced 600 ohm audio inputs for EAS monitoring Each input configurable as external audio or an optional internal radio receiver (2) balanced analog audio outputs, 600 ohm (1) balanced stereo analog audio switch, 600 ohm
General Purpose Inputs and Outputs	(4) general purpose outputs: isolated relay, maximum rating of 1A @ 30 VDC (2) general purpose inputs
Radio Receiver Boards	(1) radio receiver board can be installed into the EASyCAP (3) radio receivers are included per board, each configurable as AM, FM, or NOAA
AES-EBU Digital Audio Expansion Board (optional)	(2) AES-EBU digital audio switches on 110 ohm XLR jacks Alert audio automatically locks to the incoming bit rate and sample rate (up to 192Khz)
Communications Expansion Board (optional)	One expansion port is provided for adding a communications board DUAL-LAN-TELEPHONE Communications Expansion board (Optional) (2) 10/100 BaseT Ethernet ports, (1) Telephone MODEM
Stereo Audio Switch (Analog) (optional)	(1) balanced stereo analog audio switch, 600 ohm



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