

EASyCAST TV

Emergency Alert System for Broadcast Television

- Easy to Install, Setup, and Operate
- Built-In Programmable AM//FM/NOAA Receivers
- Supports DTV and LPTV
- Ethernet Support for Remote Network Control
- AES/EBU Audio
- Seamlessly Connects to the Visionary HD-SDI Overlay System



Trilithic's FCC certified EASyCAST™ is the perfect emergency alert system for any broadcast television station. Designed specifically to meet EAS mandates, and configured for your specific needs, this EAS solution allows television broadcasters to receive emergency alert messages, filter the messages for location and type of emergency, and retransmit the message in accordance with EAS regulations.

Whether you are a major market digital broadcaster transmitting multicast DTV or a small local LPTV station managing one site, Trilithic offers a scalable and comprehensive EAS solution that can be configured for your needs and your budget. Configured as a decoder-only for LPTV or as a full encoder/decoder for DTV stations, the EASyCAST solution from Trilithic can simplify your FCC compliance with improved efficiency and reliability.

Easy to access front panel menu and intuitive setup software allow you to select your local primary (LP-1 and LP-2) monitoring assignments and FIPS code programming for your station. All EAS messages are logged and stored on-board and available to a standard external printer. Required weekly and monthly tests (RWT, RMT) are a breeze with automated controls and

optional network connectivity for remote operation and status monitoring.

The EASyCAST incorporates DSP technology and includes standard features like Flash BIOS to guarantee your system will be up-to-date for all FCC regulations with the push of a button. Periodic updates to the software are handled with an easy download from the Trilithic website; no more disassembling just to change prompts or software.

The EASyCAST system is the digital EAS solution from Trilithic that saves you time and money, and helps you efficiently manage and control the distribution of EAS alerts.

BROADCAST TELEVISION SOLUTIONS

EASyCAST

This EASyCAST Encoder/Decoder comes complete with a built-in analog character generator, two internal radio receivers (expandable to four), two balanced audio inputs for message origination or EAS monitoring, contact-closure I/O for automation and user control, multiple balanced audio outputs, a balanced audio stereo switch, a digitally synchronized AES/EBU audio switch, TTL control lines, and the EASyNIC network connection for network control, management, and monitoring. Compatible with Visionary and BNP platforms for DTV.

EASyCAST LPTV

This decoder-only model comes complete with a built-in character generator, keypad for front-panel menu access, contact-closure inputs and outputs for automation and user control, multiple balanced audio outputs, a balanced audio stereo switch, and your choice of two or four internal radio receivers.

STANDARD FEATURES

Windows®-based setup software

allows configuration, control, and EAS log management, using an intuitive Windows® setup program.

Non-volatile storage for EAS logs stores up to 1,000 EAS activations and can be retrieved into any word processor for printing, and archiving on a hard drive or network drive.

Internal gen-locked character generator provides crisp EAS video along with balanced stereo audio switching.

Two external baseband audio inputs for satellite backup and added monitoring capabilities allows you to meet the requirements dictated by some state emergency plans that may require a possible fifth or sixth monitoring selection. Compatible with EMnet®.



think ahead

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1-800-TRILITHIC

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Four programmable dry contact closure relays can be conveniently used for directly driving external devices.

Four balanced audio outputs for audio distribution and monitoring.

Flash BIOS and DSP technology enables the EASyCAST's operating system to be field-upgraded with no hardware changes. Upgrades may include additional features, or support for modifications in EAS regulations, and may be downloaded from Trilithic's website.

SYSTEM OPTIONS

Your choice of two or four internal radio receivers each tunable to AM, FM, or NOAA. Two external audio inputs are also standard for external receivers, making the audio input capability a total of six. (2 radio + 2 baseband or 4 radio + 2 baseband). Optionally, all six (6) inputs may be baseband.

AES/EBU option for digital audio output of alerts into a digital broadcast audio stream.

EASyNIC Ethernet controller option is a key component of an integrated networked digital EAS system that saves time and provides means to manage and control the distribution of EAS alerts. It allows remote login configuration, control, and EAS Log management over the network. The EASyNIC also supports protocols for external peripheral devices, such as the Evertz 9725 platform, for seamless digital EAS messaging in your studio.

APPLICATIONS SUPPORT

Trilithic offers complete EAS routing and distribution accessories, industry leading EAS training, and applications support. Our application engineers are available to help you design complex solutions. Trilithic's comprehensive EAS solutions make FCC mandated compliance worry-free and provide a more efficient way to deliver emergency alert messages.

SYSTEM ACCESSORIES

Compliance Assistant™ software

EASy Compliance Assistant is designed to maintain and analyze the EAS logs from up to 512 EASy series* encoder/decoders, generating intelligence reports that make up the bulk of the FCC required administration documents for EAS.



It performs complete weekly and monthly analyses of logged events via Ethernet or telephone communications and retrieving logs and setup information. After retrieving logs, the software analyzes and creates reports, highlighting regulatory failures (failure to comply with FCC regulations) and regulatory successes, as well as indicators of potential failures.

If failures or other possible problems are discovered, a troubleshooting guide is created, noting the issues and providing procedures specific to the problem discovered.

Once these reports are created, Compliance Assistance will automatically send e-mail log reports and discrepancy reports to the engineering and reporting staff.

Compliance Assistant performs all these operations each calendar week and substantially decreases the time spent maintaining your EAS system and FCC log reporting duties.

AM/FM/NOAA antenna kit

The AM/FM/NOAA antenna kit is an indoor/outdoor ultra-wide range receiving aerial with a usable frequency coverage of 30 kHz to 2 GHz – short wave/VHF/UHF. This antenna



kit is a passive arrangement providing two whip elements: a long element for short wave up to 30 MHz and a second shorter loaded whip aerial for frequencies up to 2 GHz. The aerial is compact, at only 1.80 meters in height. A single coaxial lead feeds both whips in a weatherproof enclosure which in turn bolts to a suitable supporting mast (not provided).

15 meters of terminated coaxial cable is supplied. The AM/FM/NOAA antenna kit is easy to assemble and use; an instruction sheet is supplied with the aerial. V-bolts and clamps are included but a small stub mast will be required for installation.

AVAILABLE CONFIGURATIONS

Model	Part Number	Decoder Only	Encoder/Decoder	Analog CG	2 Radios	4 Radios	AES/EBU Audio	NIC
EASyCAST LPTV	2011237502	•	+	•	•			+
EASyCAST LPTV	2011237504	•	+	•		•		+
EASyCAST LPTV	2011237512	•	+	•	•		+	•
EASyCAST LPTV	2011237514	•	+	•		•	+	•
EASyCAST TV	2011237002		•	•	•		•	•
EASyCAST TV	2011237004		•	•		•	•	•

+ Optional feature



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SPECIFICATIONS

Chassis	2U x 19" x 11" rack-mount enclosure
Back Panel	2 RS-232C serial ports available on DB-9 connectors RS-485 serial port available on an RJ-12 connector Parallel port available on a DB-25 connector I/O and audio ports are available on modular screw-terminal blocks Antenna inputs are available on 75 Ω F-type connectors AES/EBU input and output available on XLR connectors
Display	20 characters by 4-row alpha-numeric LCD matrix LED backlit super-twist LCD
4 x 4 Keypad Control (16 Keys)	Conductive rubber, tactile keys (for front panel menu access)

AUDIO INTERFACES

EAS Monitoring inputs	Monitors up to 6 inputs simultaneously, including: 2 external audio inputs (600 Ω balanced) and 2 internal programmable radios (expandable to 4) Each receiver is selectable as AM, FM, or NOAA band and has a 75 Ω F-type connector antenna input
Auxiliary Audio Inputs	Internal microphone (available on front panel) Telephone input (optional) 1 EAS monitoring input may serve as a line-level voice message audio input 1, 600 Ω balanced stereo audio switch input (see Audio Outputs) AES/EBU digital audio switch input on a 110 Ω female XLR connector; locks to incoming AES/EBU sample rate (see Audio Outputs). Note: All analog monitoring input ports have automatic gain control (AGC)
Audio Outputs	4 monaural, balanced audio outputs 1, 600 Ω balanced stereo switch output for switching EAS onto the normal station programming 1 AES/EBU digital audio switch output on a 110 Ω male XLR connector for switching EAS onto the normal station programming; sample rate is set to incoming sample rate, or operates at 48 KHz standalone

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CONTROL AND COMMUNICATION INPUTS/OUTPUTS

<p>General</p>	<p>4 contact closures: Each contact is capable of switching 1A @ 12 VDC and can be used for remote status indicators or auxiliary switching</p> <p>4 contact closure inputs: Generate RWT, automation hold-off of EAS, trigger EAS, and abort EAS control inputs</p> <p>1, 9-pin RS-232C compliant interface to standard PC or laptop PC running Trilithic setup/control software (in Windows®)</p> <p>1, 9-pin RS-232C compliant interface for general purpose use</p> <p>1 standard parallel port for printing ASCII text logs (IEE1284 compliant)</p> <p>10 TTL switching output ports (0 or 5 VDC): Each output can drive a minimum of 2 TTL switching loads</p>
<p>Internal Character Generator</p>	<p>Includes a balanced stereo audio switch to replace program audio with the EAS audio message</p> <p>Gen-locks to a video source or creates stand-alone video (RS-170 NTSC)</p> <p>Capable of providing a full-page replacement, static text, and crawls</p>
<p>Memory and Controller</p>	<p>Firmware upgrades are accomplished via a serial port (from a PC)</p> <p>Maintains a log of up to 1000 EAS alerts or messages</p> <p>1 EAS and 2 general purpose audio storage sections</p>
<p>Expansion Ports</p>	<p>1 audio expansion port allows 2 additional internal radio receivers</p> <p>1 bus expansion port allows the addition of an Ethernet network interface and telephone interface (EASyNIC board)</p>

INCLUDES THE FOLLOWING:

FCC-certified EASyCAST system controller with customer-specified options

- Microphone
- 10 TTL switching lines
- 4 contact closures
- Speaker
- Printer port
- EASy setup software

RELATED PRODUCTS:

Compliance Assistant software (request quotation for 3,10,128 license)

AM/FM/NOAA antenna kit
P/N 2010830001

SNMP software
P/N 0930097003

SW-IP contact closure switch
P/N 2010360001

Switching and distribution options
(Contact Trilithic for details)

Technical services agreement
P/N 9970900005

Consulting services (Installation and training)
P/N 9970900000

5-year warranty
P/N 9970900004