

EASyIP IPTV ENCODER/DECODER

Emergency Alert System For IPTV Systems

- Easy to Install, Setup & Operate
- Minimum Rack-space
- Built-In Programmable AM//FM/NOAA Receivers
- Built-in Gen-locked Character Generator
- Cost-effective
- Supports IPTV Middleware Vendors
- Ethernet Support for Remote Network Control
- Advanced Network Features; SNMP, SNTP



Trilithic's latest innovation for your Emergency Alert System application is its EASyIP IPTV Encoder/Decoder™. This fully featured EAS system, is designed to service Telco VHO's managing systems serving as few as a couple of hundred subscribers as well as systems with more than a million subscribers.

Using DSP technology, standard features such as Flash BIOS will guarantee that your EASyIP platform will never be outdated. Periodic updates to the software are handled with the ease of a simple download. No disassembling to change proms or software or schedule IT time to install new software.

Using the standard EASyNIC™ network card to log on remotely from your desktop PC to any one of your remote VHO's allows you to retrieve up to 2,000 EAS events from non-volatile memory for printing at your office. With remote connectivity, never miss your FCC required logging because of printer failures, paper jams or lack of paper.

The standard EASyNIC Ethernet Card handles digital EAS standards and prepares you for digital platforms such as IPTV middleware while still maintaining integrated control over both analog legacy or digital systems.

With four built-in AM/FM/NOAA selectable tuners, automatically generated and programmable FCC weekly testing and complete set top digital platform compliance, the EASyIP is truly your Emergency Alert System of choice.

STANDARD FEATURES

The Trilithic EASyIP IPTV Encoder/Decoder enables parsing of FIPS codes and distributes individual EAS messages structured for up to sixty-four (64) communities located within multi-trunk headends.

Flash BIOS

Trilithic's EASyIP IPTV Encoder/Decoder eliminates the need to remove the unit from the rack, pull the cover or lid and change or upgrade chipsets and proms. FCC regulated modifications, new programming, and product enhancements can easily be handled through a simple software download.

Programmable RWT (Required Weekly Test) for Automatic Triggering

This feature allows your EAS system to automatically generate a random RWT event once, within each calendar week satisfying the FCC requirement for video systems generating and logging their own random weekly test.

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Stores up to 2,000 emergency alerts

A non-volatile Emergency Alert Storage System eliminates the need for permanently attaching a printer at the headends' encoder/decoder to view alerts or events. 2,000 EAS events stored within Trilithic's EASyIP IPTV Encoder/Decoder can be downloaded via a PC at the headend via your network using the standard EASyNIC™ Ethernet Port.

EAS events can easily be archived and/or printed to an external printer at the user's convenience. The EASyIP IPTV Encoder/Decoder Log file is word-processor compatible.

Four (4) internal radios are each tunable to AM, FM, or NOAA

This means you will not have to purchase any additional radios to meet the FCC requirement of LP-1 and LP-2 monitoring stations or the National Weather Service. Four internal radios are shipped as standard equipment. Simply tune each of the radio receivers to either AM or FM, to match the designated LP-1 and LP-2 stations assigned for your area or the NOAA frequencies as needed.

Two (2) external audio inputs for added monitoring capabilities

This feature allows you to meet the requirements dictated by some State Emergency Management Plans that may require a possible fifth or sixth monitoring frequency or audio other than AM/FM radio band or NOAA. Some state Emergency Systems have their own system or frequencies.

Latest DSP Technology

Trilithic's use of DSP hardware is an example of the most current engineering practices being implemented.

EASyIP Setup Program

Upon initialization the EASyIP Configuration Program is used to customize the encoder/decoder setup.

Encoder/Decoder Features

The EASyIP IPTV Encoder/Decoder has a built-in Character Generator, a front-panel microphone for generating your own messages, front-panel Speaker and Keypad entry.

EASyNET Telephone Modem Local Access Card

An internal modem card and software are used for local communities to dial into the EASyIP system for localized overrides. Login is password protected. Remote login enables Trilithic's EAS technical support team to troubleshoot and/or verify setup parameters.

EASyNIC Ethernet Port and Controller

The EASyNIC provides the EASyIP IPTV Encoder/Decoder with an internal 10/100BaseT Ethernet port which supports protocols for various middleware vendors to directly transmit digital EAS messages to the network.

Remotely login to the EASyIP via your network for configuring system or downloading FCC event files.

EASy Compliance Assistant

The EASy Compliance Assistant scans the logs of every EASyIP IPTV Encoder/Decoder programmed into the software automatically every Sunday and reports discrepancies via e-mail reports to selected office and technical designees every Monday morning before they arrive at the office. It can also be used to maintain FCC logs.

NOTE: EASyNIC Ethernet Controller includes

EASyNET Telephone Modem on-board.

FCC Type-Certification number: P4V-

EASYPLUS-1

Trilithic is an ISO-9001:2008 certified company.

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SPECIFICATIONS (P/N 2011056000, P/N 2011056001)

Chassis	2U x 19" x 11" rack-mount enclosure
Back Panel	Two RS-232C serial ports available on DB9 connectors Parallel port available on a DB25 connector I/O and audio ports are available on modular terminal blocks <ul style="list-style-type: none">• Video ports are available on 75ohm BNC connectors• Antenna inputs are available on 75ohm F connectors• RJ45 network connector• RJ11 telephone jack
Display	20 characters by 4 row alpha-numeric LCD matrix LED Back lighted Super-twist LCD
4x4 keypad (16 keys) Control	Conductive rubber, tactile keys Numbers 0-9 (and letters A to Z) X (cancel) key Checkmark (enter) key Up, down, left, and right arrows
Serial Interface Control	RS-232C compliant interface to standard PC or laptop PC running Trilithic setup/control software (in window's)
Ethernet Interface	10/100 Base T ethernet

EAS MONITORING

Monitors up to 6 inputs simultaneously, including:	Two external audio inputs (600 ohm balanced)
Four Internal Programmable Radios	Each receiver is selectable as AM, FM, or NOAA band 75 ohm "F" connector antenna inputs Minimum RF inputs AM: 25 dBuV, FM: 8 dBuV, WXR: 25 dBuV Maximum RF inputs All bands: 60 dBuV
Audio Inputs Inputs described in EAS monitoring section	Internal microphone (available on front panel) Telephone Input Note: <i>All inputs have automatic gain control (AGC)</i>

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Audio Outputs	<p>All digital audio generation/recording from AC '97 Codecs operating at 48KHz, 16 bit Four monaural, balanced audio outputs Internal front panel speaker Telephone audio output to the telephone access board Volume control provided for each output (balanced outputs, speaker, telephone, AFSK)</p>
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CONTROL AND COMMUNICATION INPUTS/OUTPUTS

General	<p>Ten TTL output ports, each output can drive a minimum of 2 TTL loads Four contact closures, each relay is capable of switching 2A@12Vdc, all contact closures are user programmable Two RS-232C serial ports (input and output communications) One standard parallel port for printing ASCII text logs (IEE1284 compliant) One network connection, 10/100 Base T ethernet</p>
Internal Character Generator	<p>Includes a balanced stereo audio switch to replace program audio with the EAS audio message Gen-locks to a video source or creates stand-alone video (RS-170 NTSC) Capable of providing a full-page replacement, static text, and crawls</p>
Memory and Controller	<p>Firmware upgrades are accomplished via a serial port or network connection Up to 64 event records and 64 FIPS codes can be programmed Maintains a log of 2000 EAS alerts or messages Two minutes, non-volatile audio storage for EAS audio messages One minute, non-volatile audio storage for a tune-to (pre-recorded) message or general use 2 one minute audio files for custom messages</p>
Expansion Ports	<p>One TTL expansion port allows up to 32 additional TTL's standard, configured for location routing or headend equipment if required</p>

INCLUDES THE FOLLOWING:

Internal Character Generator
(4) AM/FM/NOAA Radios
TTL-32 Contact Closures
EASyNIC Ethernet Card
EASyNET Telephone Modem
Compliance Assistant Software
SNMP Support
2-Year Standard Warranty

OPTIONAL FEATURES OR ACCESSORIES:

AM/FM/NOAA Antenna Kit
P/N 2010830001
EASyNET Custom Messaging
P/N 0930097001
Technical Services Agreement
P/N9970900005
Consulting Services
P/N 9970900000
IPTV Cable Kit
P/N 2071423101
Five Year Warranty
P/N 9970900004