

# EASyIP EAS NETWORK RECEIVER

Remote EAS Alert Receiver with Network Connectivity

- Receives EAS Messages and Forwards them on a Network to the Head-End or VHO
- Communicates to Multiple EASy Series Encoder/Decoders
- Stores and Queues EAS Audio Messages
- Monitors up to Four Radio Sources
- Locate Network Receiver where the Alert is Best Received and Process Alerts for Customers at Another Location
- Web Server for Configuration, Management, Control and Logs



Trilithic announces a new product to revolutionize the receipt and delivery of EAS messages in video delivery networks. The EASyIP EAS Network Receiver extends the area of EAS message reception for cable TV, IPTV, or a private network, while improving the reliability of the message delivery. The EASyIP Network Receiver will change the way EAS networks are designed and operated by allowing providers to operate EAS over a regional network.

The network receiver is the culmination of customer input and Trilithic engineering to solve a growing problem. Many video delivery networks are expanding to the point where they must now service many EAS zones. This creates the requirement to monitor more radios in multiple geographic locations. The patent pending EASyIP EAS Network Receiver can be located in a facility where reception is clear and the alert can be sent over the company's network back to the EASy Series Encoder/Decoder for processing.

When an EAS alert is received by the EASyIP EAS Network Receiver, the alert is immediately stored. The network receiver then processes it for transport to the designated IP addresses, which can be programmed using a standard web browser. The transport message is either processed by the encoder/decoder or a busy message is returned. The EASyIP EAS Network Receiver continues to contact the designated EAS devices until the alert is processed. This eliminates lost alerts, as each alert stays queued until received and acknowledged by the encoder/decoder.

The EASyIP EAS Network Receiver will integrate with any EASy Series product, EASyPLUS Encoder/Decoder, EASyIP IPTV Encoder/Decoder, or EASyPLUS Decoder.

The geographic size of video networks has created multiple challenges in monitoring additional local primary (LP-1 or LP-2) stations and in some areas the reception of these signals or NOAA weather radio is difficult.

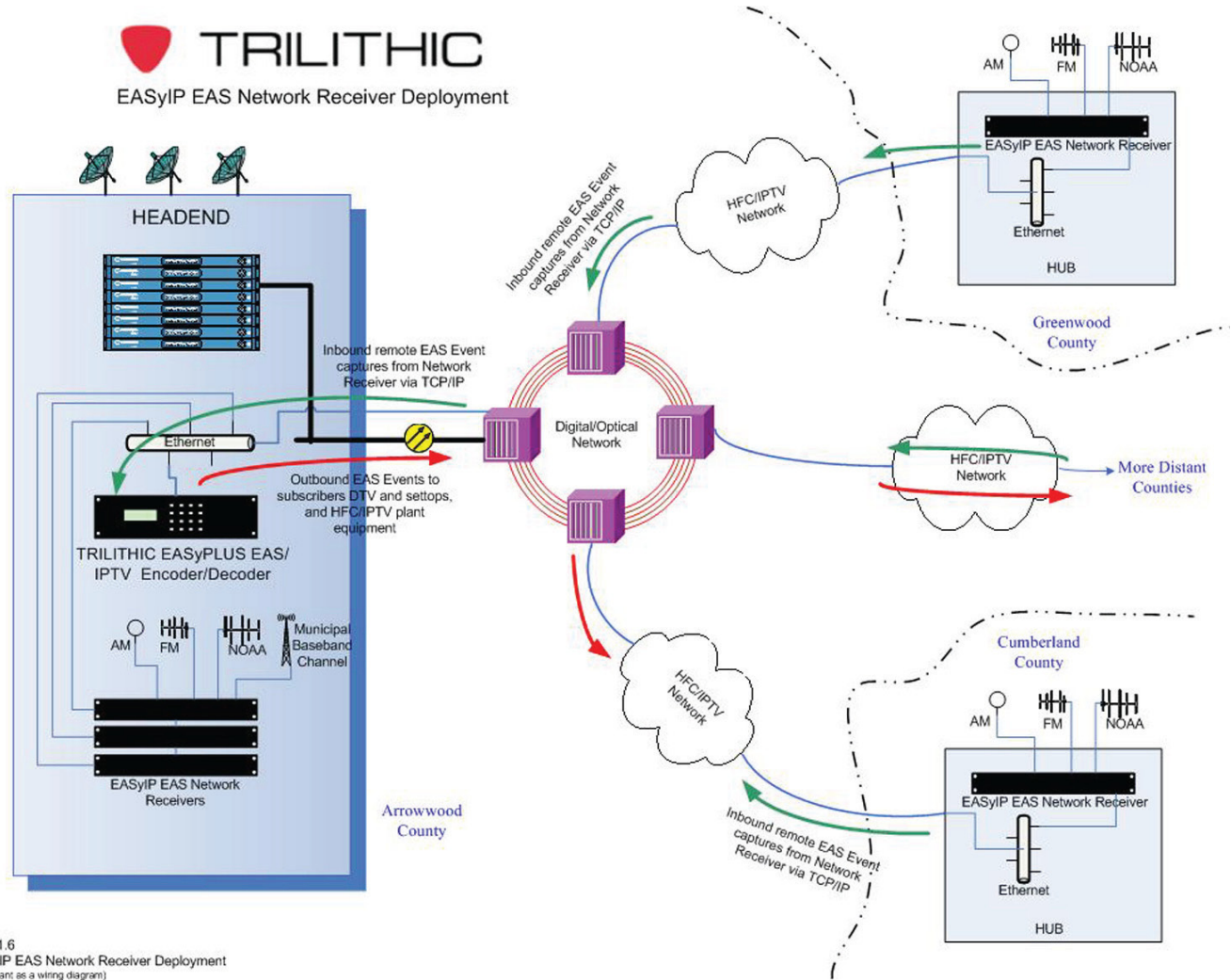
In addition, The EASyPLUS or EASyIP Encoder/Decoder can handle duplicate messages, providing a level of redundancy that has not been available before. With better message reception, audio message storage and queuing, and EAS message redundancy, the EASyIP EAS Network Receiver has changed the way EAS networks are designed and operated.



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## EASyIP EAS NETWORK RECEIVER DEPLOYMENT



Rev. 1.6  
EASyIP EAS Network Receiver Deployment  
(not meant as a wiring diagram)

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## SPECIFICATIONS (P/N 2011087001, P/N 2011087004)

### Mechanical

<b>Enclosure Dimensions</b>	1U x 19" rack-mount enclosure
<b>General</b>	Accommodates 1 or 2 EAS network receiver boards (allowing for 4 EAS monitoring ports)
<b>Front Panel</b>	Speaker (per board assembly; 2 radio channels per board) Power, status, fault, channel 1 and channel 2 activity indicators (per board)
<b>Back Panel</b>	AC power connector (1) RS-232 serial port on a DB-9 connector (per board) (1) 10/100BaseT Ethernet port on an RJ-45 connector (per board) (2) 600 $\Omega$ balanced baseband audio inputs on 6pin modular screw terminal plug (per board) 2 to 75 $\Omega$ antenna inputs on F-type connectors for internal radio receivers (per board)
<b>Communications</b>	(1) RS-232C serial port available on a DB-9 connector (1) 10/100BaseT Ethernet port available on a RJ-45 connector Supported network protocols: ARP, RARP, PING, UDP, TCP/IP, FTP, HTTP, SNMP Note: SNMP will be supported in a later firmware revision
<b>Processing and Memory</b>	32 bit RISC processor Audio DSP 32 MB RAM 32 MB FLASH (non-volatile) RTC (real-time clock) with battery backup Firmware upgrades are accomplished via FTP across the 10/100BaseT Ethernet port Maintains an onboard non-volatile log of all system activity (maximum of 1 MB) Log entries include: receive EAS, EAS decode status, deliver EAS, errors, etc.
<b>Indicators</b>	Power, status, fault, channel 1, and channel 2 activity indicators available on the front panel Speaker is available on the front panel to monitor audio/radio inputs; includes volume control

### Applications

<b>General</b>	Receive radio stations in good reception areas, alerts are forwarded across the network Expand the monitoring capabilities of the encoder/decoder Provide redundancy for EAS monitoring assignments Solve traffic problems by queuing messages until the encoder/decoder can process them Provide quality assurance by monitoring EAS reception at various locations
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## Firmware

<b>Application Features</b>	<p>Allows the EAS monitoring ports (audio inputs) to be configured as radio or external audio Band (AM, FM, NOAA) and frequency of the internal radio receivers are configurable</p> <p>Records up to 2 minutes of audio for valid EAS messages (maximum 3 audio files)</p> <p>Delivers EAS messages (and audio) to up to 8 EASyPLUS/EASyIP Encoder/Decoders</p> <p>EAS messages are delivered via a UDP protocol, including appropriate hand-shaking and acknowledgements</p> <p>EAS audio is delivered via a fail-safe TCP protocol including appropriate hand-shaking and acknowledgements</p> <p>EAS messages (and audio) are queued until the receiving encoder/decoder is ready</p> <p>All EAS activity and errors are logged into an onboard non-volatile file</p> <p>SNTP is supported to synchronize time</p> <p>Firmware upgrades are accomplished via FTP</p> <p>Management software is provided to control and configure the network receiver via TCP</p> <p>Web server is provided to allow management and control via a standard web browser</p>
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## Audio

<b>General</b>	<p>2 (4) audio inputs are monitored for EAS messages</p> <p>4 minutes of audio storage is provided for each input to store EAS audio messages</p> <p>All audio inputs have AGC</p> <p>Each audio input is selectable as external baseband audio or radio receiver</p> <p>Baseband audio inputs: balanced, 600 <math>\Omega</math>, modular screw terminal plugs</p> <p><b>Internal radio receivers:</b></p> <p>2 (4) internal radio receivers</p> <p>Selectable as AM, FM, or NOAA</p> <p>75 <math>\Omega</math> F-type connectors for the antenna inputs</p> <p>In-line pad to decrease input signal strength</p>
<b>Minimum RF Input</b>	AM 25 dB $\mu$ V, FM 8 dB $\mu$ V, NOAA 25 dB $\mu$ V
<b>Maximum RF Input</b>	60 dB $\mu$ V
<b>Frequency Range</b>	AM 520 to 1720 kHz, FM 87.5 to 108 MHz, NOAA 162.4 to 162.55 MHz

Note: The EASyIP EAS Network Receiver is intended for local/state EAS codes only and does not support streaming audio from EAN event code. At least one antenna connection should be made on EASyPLUS, EASyCAST, or EASyIPTV systems to receive EAN audio.



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