

# Sage Digital ENDEC

Next-Generation Emergency Alerting System



*Sage Alerting Systems*

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## All Emergency Alerting Systems are not Created Equal.

Harris has partnered with Sage Alerting Systems to introduce the Sage Digital ENDEC Emergency Alerting System. Powered by next-generation technology, this system is the simplest and most cost-effective transition solution, providing support for newly available EAS requirements. You can feel confident in the quality of the Sage Digital ENDEC, because it was developed by the same team that built the original ENDEC. Over a decade of real-world experience working with radio, TV, cable, and emergency center users went into the enhancement of this latest system.

The Sage Digital ENDEC provides user-friendly programming and operation through a new Web-based GUI or directly from the intuitive front panel via four ATM-style button controls. Boasting all the features you would expect from the market-leading original ENDEC, the Digital ENDEC provides plug-in compatibility to support seamless upgrades and a host of powerful new features that ensure Emergency Alerting System (EAS) compliance.

### Original ENDEC Compatibility

The Digital ENDEC has all of the interfaces of the original ENDEC, including:

- 2RU rackmount enclosure
- Six audio inputs
- Six serial ports
- Encoder and microphone input
- 4x20 LCD display
- Internal speaker and line out
- Three contact closures (plus one new closure)
- One GPIO input (plus four new)
- Front-panel status LEDs
- Support for all ENDEC hardware options, such as the remote control, multi-station relay panel, LED signs, etc.
- Support for all ENDEC software utilities such as ENDEC PRO and ENDEC DJ

### Expanded Feature Set

In addition to the extensive features of the original ENDEC, the Digital ENDEC includes a wide array of new hardware and software features:

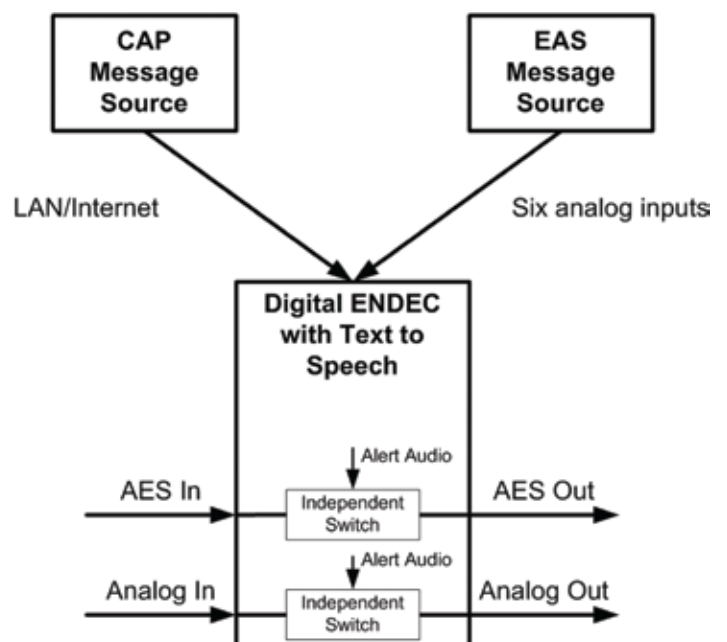
- 10/100 Base-T LAN support
- Two USB connectors for printers, additional serial ports, future expansion
- Four new GPIO inputs and one additional contact closure for expanded control
- AES/EBU digital audio interrupt with active switching
- 64 MB onboard storage for log files
- Optional USB memory stick(s) for up to 8 GB long-term storage of alert audio
- Totally solid-state memory storage for reliable operation — no hard drive
- Web-based control — all settings and functions (including initiating or forwarding alerts, and changing configuration) can be performed from anywhere on the Internet

### Future Proof — CAP Compatibility

While no one can accurately predict the future, the Digital ENDEC has been designed with a fast processor and extensive program and data space to provide a smooth upgrade path to new EAS standards, such as the Common Alerting Protocol (CAP).

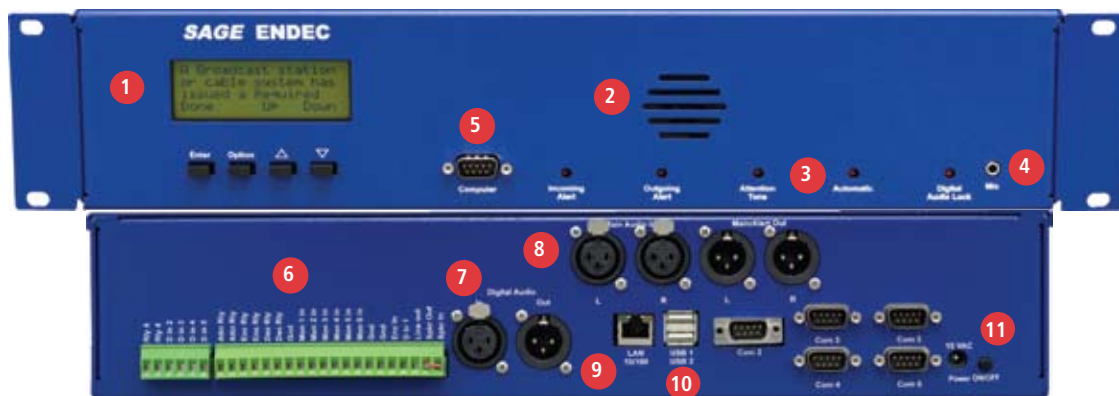
The Digital ENDEC uses its LAN connection to receive CAP alerts (either pulled from a server by the ENDEC or pushed to the ENDEC), and then uses ENDEC “filters” to determine the required action. If needed, the Digital ENDEC will:

- Generate an EAS alert based on the data in the CAP message
- Fetch audio using information in the CAP message, or generate audio using internal text-to-speech software based on data in the CAP message
- Send the EAS message using all of the standard ENDEC filtering/formatting capabilities



## Benefits

- Several layers of security are provided, including IP access lists. HTTPS/SSL is used to encrypt all access.
- Software is stored in FLASH and is updateable via the LAN or the USB interface.
- Text and audio logs are available via the Web interface page.
- Alert audio for originated alerts can be transferred via the Web interface.
- Alert audio for a pending alert to relay can be previewed via the Web interface using streamed audio.
- Any of the audio monitor inputs can be streamed to the Web interface.
- The Digital ENDEC can trigger the relay of an alert or the generation of Weekly Test (or any other alert) via interface to common station automation programs on the serial port via the LAN or its GPIO interfaces.
- Text-to-speech support locally generates audio based on the expanded text message available with the CAP protocol.
- The ENDEC can optionally send e-mail when important events occur, such as sending and receiving alerts, loss of input on a monitor receiver, etc.



**1 Intuitive Control**  
Front-panel control via the simple ATM-style display means no operator retraining.

**2 Integrated Speaker**  
Provides for audible alert and relay of key messages. Muting input for connection to studio monitor muting system.

**3 Status Indicator**  
Intuitive indicators to key alert status and system mode.

**4 Microphone Input**  
Simple input for real-time local origination of alert messages.

**5 Six Serial Ports**  
Connections to LED signs, remote control, outstation relay panel, logging printers, video character generators, etc.

**6 I/O Connections**  
Extensive logic and audio connections that match the original ENDEC for simple upgrade of existing systems. Includes six audio, GPIO, relay and warning light control.

**7 Digital Audio Connections**  
New – AES3 digital audio connections and switching eliminate the need for costly outboard boxes to achieve program interruption.

**8 Analog Audio Connections**  
Stereo analog audio connections with switching provide seamless compatibility with legacy systems.

**9 LAN Connection**  
Standard Ethernet connection to support remote control, remote origination and CAP connectivity.

**10 Dual USB Ports**  
Support connectivity to a wide array of peripherals, coupled with a user-supplied USB flash drive, audio and text logging.

**11 Power Supply**  
An outboard UL-approved auto-ranging power supply supports a wide range of voltages — 100 to 240 V AC/48-62 Hz; includes rear-panel on/off switch.

## Warranty and Return Policy

Sage warrants to the original end-user/purchaser that this product and the components thereof, will be free from defects in workmanship and materials for a period of one year from the date of purchase. Sage will, without charge, repair or replace, at its option, defective product or component parts upon prepaid delivery to the service department of Sage accompanied by proof of purchase date in the form of a valid sales receipt.

This warranty does not apply in the event of misuse or abuse of the product or as a result of unauthorized alteration or repairs. The warranty is void if the serial number is altered, defaced or removed.

Sage shall not be liable for any consequential damages, including without limitation, damages resulting from loss of use. Some states do not allow limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific rights and you may also have other rights which vary from state to state.

The following information is provided for the unlikely event your unit requires service and must be returned for service.

1. Be sure the unit is the cause of the problem. Check to make sure the unit has power supplied, all cables are connected correctly and the cables themselves are in working condition.
2. If you find the unit to be at fault, write down a description of the problem including how and when the problem occurs.
3. Call Sage at 914 872 4069 or e-mail [support@sagealertingsystems.com](mailto:support@sagealertingsystems.com) for a Return Authorization (RA) number.
4. Pack the unit in its original carton or a reasonable substitute. Put the packaged unit in another box for shipping. Print the RA number clearly under the address. NOTE: The unit is subject to damage if poorly packaged. Shipping damage may affect your warranty.
5. Include with your unit: a return shipping address (We can not ship to a P.O. box), a copy of your purchase receipt, a daytime phone number and the description of the problem.
6. A shipping address will be provided with the RA number.

For more information, please visit [www.broadcast.harris.com/radio](http://www.broadcast.harris.com/radio).

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