Digital Alert Systems

DASDEC-III

Third Generation Flexible Emergency Messaging Platform

Digital Alert Systems, the innovative leader in EAS/CAP products, presents the DASDEC-III. The latest in the award winning DASDEC™ series of emergency messaging devices.

Features

- Unified platform for all applications: broadcast TV, CATV, IPTV, radio, industrial, emergency management/public safety
- Two models provide flexible, cost-effective solutions to any application
- Modular digital audio and multiple networking options
- Multiple software options for easy in-field upgrades
- Program audio features RJ-45 connectors for simple wiring using CAT5/6 cabling
- High definition video option using HDMI output with embedded message audio

An innovative leader in the emergency messaging market for over 20 years, Digital Alert Systems continues its reputation for excellence and innovation by introducing the DASDEC-III, the latest generation of emergency messaging technology. Chock full of powerful features for a wide range of applications, the DASDEC-III covers current requirements and is designed to handle future needs with easy software upgrades in a flexible, proven hardware package and a host of communication interfaces and standards.

The DASDEC-III from Digital Alert Systems is the next generation of emergency messaging technology, ready to carry emergency messaging well into the 21st century.

Built for today - ready for tomorrow

The DASDEC-III improves upon the many features that propelled the previous models to the forefront of EAS encoder/decoder market. Features like small single box design, integrated receivers, advanced hardware interfaces, simple software upgrades, and robust information exchange protocols managed through a web interface. Proving Digital Alert Systems' innovative leadership, the The DASDEC-III offers a world of possibilities. Customers can choose from two base hardware models and customize the ultimate solution to fit their requirements.

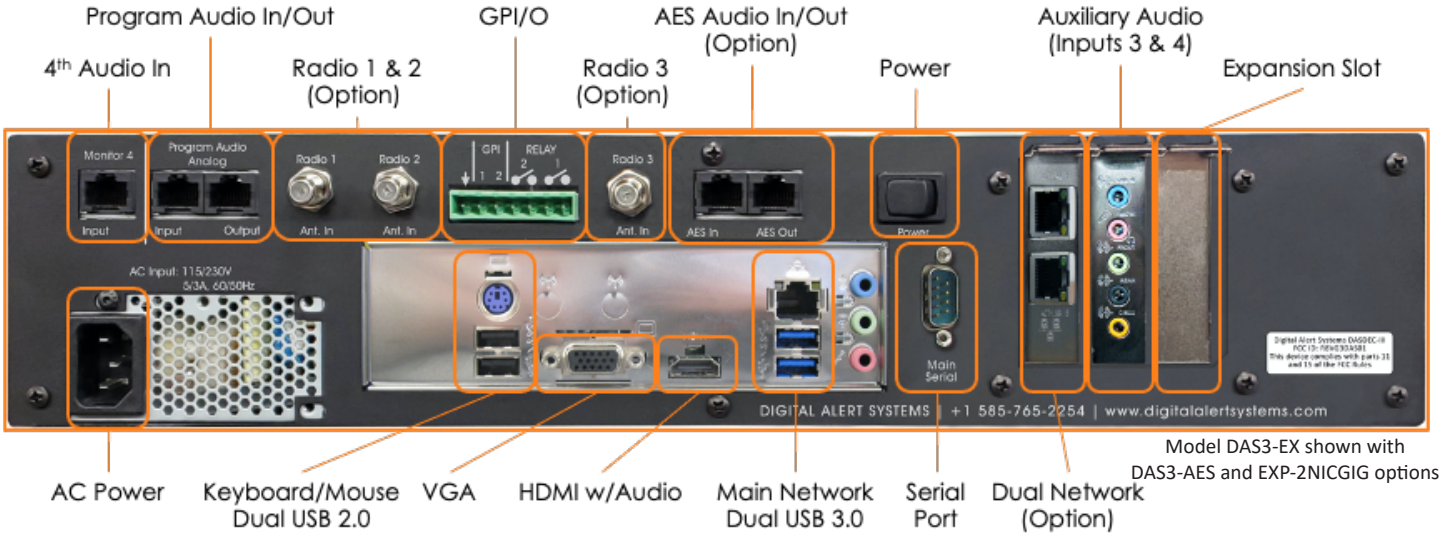
More modular design

Analog stereo audio program switching is standard on both models, and a secondary AES digital audio signal path with the DAS3-AES is also an option. In addition, both analog and digital signal paths incorporate fail-safe bypass relays to eliminate off-air worries in the event of power failure.

The DASDEC-III adopts a different video standard using an HDMI output capable of displaying a full-screen message up to 4K with audio, making it a perfect complement to various digital signage applications.

The DASDEC-III supports the broadest range of physical connections and interface protocols in the industry — whether simple GPI/O, basic serial, USB, or IP-networking. While the DAS3-EL is limited, the DAS3-EX adds three expansion ports — one for more monitoring audio inputs, and the other two accept a wide range of available audio, GPIO, and network options.

For digital streaming, there are optional MPEG2 and MPEG-DASH encoders capable of creating transport streams for direct insertion into digital broadcast or cable distribution systems or providing alert video and audio into a content delivery network (CDN). Powerful options that save the cost and wiring of external encoders or transcoding systems.



Model DAS3-EX shown with DAS3-AES and EXP-2NICGIG options

Besides offering AES as a module, the DASDEC-III introduces RJ-45 style audio connectors replacing bulking and expensive XLRs or difficult to patch terminal strips. The new audio connectors allow simple CAT5/6 wiring with many of the latest audio consoles and devices, following a standard wiring configuration so customers can purchase any number of adaptors (available separately) or craft their own.

The DAS3-EL and DAS3-EX support the optional integrated tri-band (AM/FM/WX) monitoring receivers. For example, adding the DAS3-2RADIO license activates two (2) receivers on the DAS3-EL, and with the DAS3-3RADIO option, three (3) receivers and a fourth baseband monitoring audio input on the DAS3-EX. These options can be activated in the field, no longer requiring a factory retrofit.

Additionally, DASDEC-III supports Digital Alert Systems' exclusive EAS-Net™ option, the de facto protocol standard for IP interfacing. Adopted by more than 50 companies with 90+ products, including various character generators, media keyers, video servers, and encoding platforms, EAS-Net creates a powerful and straightforward way to communicate messages over an IP network. With more companies joining the EAS-Net bandwagon every year, it's good to have a DASDEC on the team.

Both DASDEC-III models feature an enhanced front panel display offering more information with its four-line display. In addition, the added button panel provides activation, configuration, and control functions in the future.

Doubling Down

The DASDEC-III features the latest hardware and compute processing platform — that means it's a 64-bit system — doubling the processing throughput over the original and early DASDECs. All significant steps up in power and performance with a snappier response, more horsepower, and the 64-bit architecture ensures the system will support the latest advances in operating systems and future security and feature enhancements.

New platform – New Interface

Digital Alert Systems also ushers in a new generation of software with this new platform leveraging the new 64-bit architecture. Version 5 is the beginning of a new and improved presentation and operator interaction, making the system more user-friendly and intuitive. In addition, the latest software features a completely updated and streamlined user interface, following the efforts pioneered with our HALO™ Enterprise Level EAS Device Management system. Reducing many of the multi-tab configurations to single, more manageable pages, substantially reducing clutter, and forcing consistency, results in a much more attractive interface for new users while remaining familiar for veterans. More importantly, moving to a more contemporary and consistent springboard for continued user-interface improvements.

Control where you need it

DASDEC was the first EAS/CAP device to use a web browser-based user interface and leverage standard network connectivity. As a result, there are no special software, steep learning curves, or sophisticated software installations requiring IT support. Moreover, the DAS3-EX model offers a dual-port Ethernet expansion option (***EXP-2NIC-GIG***). Using additional network connections, data can be isolated on separate networks with multiple access points across domains without modifying complex bridges or routing tables.

Feature-packed for the future

The DASDEC-III is backward compatible with all older DASDEC and One-Net™ units. Functionally, the device easily replaces any existing EAS/CAP installation and does it better.

Setups and backups couldn't be easier with file-based configuration storage and management and compatibility with HALO™, the patent-pending solution for managing multiple devices, ultimately saving hours of work in restoring or setting up machines and storing any number of complex configuration settings. Visit www.digitalalertsystems.com/HALO/home.html for more information on HALO – the exciting solution for EAS device management.

Ready for NextGen TV

The next wave of broadcast television is driven by ATSC 3.0 (NextGen TV), a new standard incorporating many features. One of the most exciting is the Advance Emergency Information (AEI) capability, a unique way for TV broadcasters to present information to viewers without program disruption. AEI doesn't replace EAS but rather augments the delivery of essential updates directly to a NextGen TV receiving device. Digital Alert Systems was instrumental in developing this promising new messaging format and continues to lead the way in AEI message integration within this emerging rollout. No other company or product can provide the same integration and deployment support level. Thinking NextGen? Think DASDEC.

More stations – More streams

Digital Alert Systems pioneered the concept of providing EAS over multiple stations from one device. The optional MultiStation™ software handles full EAS/CAP compliance for up to five individual stations or streams; all managed through a single DASDEC. With MultiStation, EAS alerts are processed and forwarded simultaneously to all channels or sequentially to suit the user. Having control at this level avoids costly or embarrassing program interruptions. In addition, DASDEC's powerful multi-alert processing handles ALL incoming events, never dropping a message because one's already in the queue.

Coupling a DASDEC and the MultiStation option with the award-winning MultiPlayer™ creates a combination that completely replaces five separate encoder/decoders! Think of the cost savings. Think of the wiring, rack space, and power savings. Think about the ease in setup, operation, and maintenance. It's clear that DASDEC is the standard for multicasting operations.

Confidence in compliance

Each EAS alert received and processed by the DASDEC is stored in non-volatile memory – not just the text but the complete message, including the original audio. By retaining full message details, you have comprehensive verification, including the ability to listen to and analyze alert message audio for precise and complete post-alert evaluation, troubleshooting, and verification.

DASDEC also features comprehensive email tools to keep everyone up-to-date and aware. The system can email alerts for each message. Additionally, summary reports can be sent weekly or monthly. Selective message extraction lets you print, display, and listen to single or multiple message-based date ranges for compliance reporting. Store and sort the files, then print only when necessary. As a result, compliance is complete without trying to manage paper trails.

Take a look and you'll like what you see.

DASDEC-III, the third generation of emergency messaging platforms from Digital Alert Systems — the most complete emergency messaging system available. No other company leads the way with more innovative products and ideas than Digital Alert Systems. Backed by a team of top developers, engineers, and support professionals, the DASDEC is the solution to your EAS/CAP requirements now and in the future.

Find out why thousands of broadcast and cable companies rely on DASDEC. Contact your Digital Alert Systems representative today for a FREE online demonstration and to learn how you can streamline and improve your EAS requirements. Don't wait. Call 585-765-1155 or visit www.digitalalertsystems.com today.

The DASDEC-III from Digital Alert Systems — your trusted leader and solutions partner for emergency messaging.

DASDEC-III Specifications	DAS3-EL	DAS3-EX
Monitoring Audio Inputs:	Two (2) monaural EAS monitoring inputs	Four (4) monaural EAS monitoring inputs
(Optional - Internal Monitoring Receivers)	**DAS3-2RADIO** Integrated Dual Tri-Band (AM/FM/WX) radio receivers Tunable frequencies: AM 520 kHz to 1720 kHz FM 76 MHz to 108 MHz WX162.4 MHz to 162.55 MHz Input 50Ω –"F" type connector	**DAS3-3RADIO** - Integrated Triple Tri-Band (AM/FM/WX) radio receivers Tunable frequencies: AM 520 kHz to 1720 kHz FM 76 MHz to 108 MHz WX162.4 MHz to 162.55 MHz Input 50Ω – "F" type connector
Monitoring Audio Expansion	N/A	Optional **EXP-EAS-e** adds two (2) additional monaural inputs (6 total)
Program Audio		
Analog Input / Output	Balanced 600Ω stereo audio input - fail-safe bypass relay Connector: RJ-45 in/out following StudioHub™ wiring standard*	
Digital Input – (Optional **DAS3-AES**)	Balanced 110Ω AES/EBU digital audio input Connector: RJ-45 in/out following StudioHub wiring standard	
Digital Output – (Optional **DAS3-AES**)	Balanced 110Ω AES/EBU digital audio synced to incoming sample rate, or 48 kHz without reference input Connector: RJ-45 in/out following StudioHub wiring standard	
Auxiliary Audio Output	N/A	Un-balanced lo-Z audio Connector: 1/8" mini-plug
LAN Interface:	TCP/IP Ethernet: One (1) 10/100/1G BASE-T Connector: RJ45	Default Address: 192.168.0.200 Green link & amber data indicators
(Optional network additions)	**USB-1NICGIG** External single port adaptor USB-RJ45 Connector: USB-RJ45	**USB-1NICGIG** External single port adaptor USB-RJ45 **EXP-2NICGIG** Internal dual 10/100/1000 BASE-T IP addressing: Static (ports 1-4) or DHCP (ports 1 & 2) Connector: RJ45
Video Output - Full-screen Slate (Optional **Video Output License Key**)	VGA: Maximum resolution: 1920 x 1200 @60Hz HDMI 1.4: Maximum resolution: 4096x 2160 @30Hz	Connector: DB-15 Connector: Type A: HDMI output includes alert audio
General Purpose Inputs/Outputs	Two (2) software-defined inputs Two (2) software-defined outputs rated 2A @30VDC	Connector: 7-pin detachable terminal strip
Serial Port	One (1) RS232 data 9 pin "D" connector Optional **USB/4RS232** adds four additional RS-232 ports (5 max.)	
USB ports:	Two (2) USB V2.0/1.1 Two (2) USB V3.1	Connector: type A sockets Connector: type A sockets
Local Control Ports	Keyboard/Mouse	Connector: PS-2 type socket
Front Panel Display Status lamps – Green, Yellow, Red	Monochrome backlit LCD matrix display Four rows of 20 characters	Color backlit LCD matrix display Four rows of 20 characters
Expansion Port: (DAS3-EX only)	N/A	Triple EXpansion slots for any of the following options: **EXP-EAS-e** – Two (2) monitoring audio inputs (6 total) **EXP-GPIO-e** – Eight (8) additional GPIs and GPOs (10 total) using external breakout box and cabling **EXP-2NICGIG** – Dual gigabit network expansion
Physical Attributes:		
Dimensions / Weight	19" W x 12" D x 3.5" H (48.2 cm W x 30.4 cm D x 8.9 cm H) 2RU EIA rackmount | 15 lbs. (6.8 Kgs)	
Compliance:	FCC Part 11 Certification ID: R8VG3DAS01 FCC Part 15 Subpart B Testing - Passed FEMA Conformity Assessment: IPAWS Message Producer & IPAWS Message Consumer	

*More information available at https://studiohub.com/adapters/

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