



FEATURES

- Real-time MPEG-2/1 Encoder using DASDEC Expansion Slot
- Encodes video & audio details into MPEG stream - output on Ethernet
- Programmable audio and video bit rates
- Supports multiple resolutions & audio sampling rates
- Selectable Unicast or Multicast streaming
- Selectable operating modes - constant stream or stream-on-alert
- Streaming operation selectable by FIPs and EAS event codes

BENEFITS

- Internal board requires no additional rack space or power
- Simplified installation and wiring
- Saves money by not requiring expensive external MPEG encoders
- Removes multi-vendor interoperability issues
- Streaming operation selectable by FIPs and EAS event codes
- Less interruption and confusion as location and event-based operation streams only when necessary

DASDEC-II™ MPEG Encoder | Option

MPEG 2 Audio-Video Streaming (MPEG-over-IP) of Alert Details

Introduction

Emergency messaging in today's digital world requires devices communicate using a standard protocol, and for the modern facility this means MPEG. Digital Alert Systems understands this requirement and directly meets the need by providing an optional MPEG encoder fitted in the DASDEC-II's internal expansion slot. This unique approach provides an elegant and compact way to get EAS details encoded onto an MPEG stream and available for insertion into a facility's MPEG distribution system.

Keeping it real, keeping it simple.

During EAS activation the DASDEC's on-board character generator* places the event details on a full screen standard definition video display.

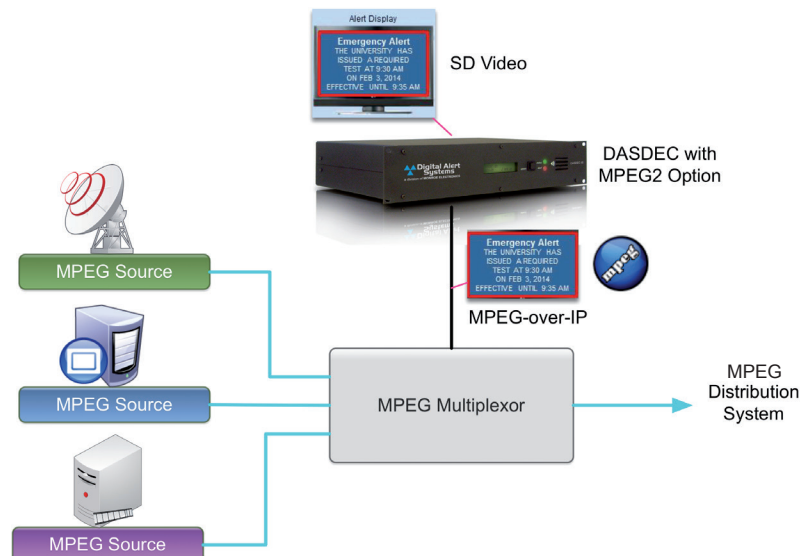
With the **MPEG2 MPEG Encoder Option** installed this the video output is combined with the associated event audio and compressed into a standard MPEG transport stream (TS) with selectable video/audio Program IDentifiers (PIDs) and output transmitted via the an Ethernet port. From here the stream can be multiplexed and inserted into the MPEG distribution chain.

There are two modes of operation –Alert Active or Constant Stream. Using Alert Active the output is completely silent – no stream or IP is transmitted until an alert activates the stream. This is used by many downstream devices to simplify operation as the presence or absence of the IP stream indicates the presence or absence of an alert and in this way devices can be switched without needing any complicated switching logic, or hardwired triggering.

Alternately the unit can be run in a Constant Stream mode so there's always some form of MPEG TS output for downstream devices requiring an input to avoid error conditions.

With so many IP devices in a facility adding the **EXP-NIC3 Triple Port Ethernet Expansion Option** provides 3 additional Ethernet ports to the DASDEC-II allowing independent port isolation between the MPEG streaming output and other network interfaces operations network, Internet based CAP servers, VPN, etc.

Once the board is installed all settings and controls are easily managed via the DASDEC's browser-based interface. Moreover, DASDEC's unique location and event filtering controls allow selection of specific FIPs codes and/or specific EAS event codes to determine MPEG streaming activation, something only possible with this powerful DASDEC-II and MPEG2 combination.



* Refert to Compatibility section on next page

Putting it all together

Think about the cost savings – no need to buy an external MPEG encoder. Think of the wiring, rack space, and power savings along with the ease in set up, operation and maintenance. When you think about it the DASDEC clearly wins on all counts. Contact your Digital Alert Systems representative today to learn how you can streamline and improve your EAS requirements.

Don't wait. Call 585-765-1155 or visit www.digitalalertsystems.com today.

Components

MPEG2 MPEG-2 hardware and software option - provides full screen EAS text display in an MPEG-2 transport stream with multiplexed audio over a TCP/IP output (MPEG-over-IP). Installation on Encoder units only. Recommend adding EXP-3NICGIG to separate streaming output and other network ports. Uses internal expansion port, therefore cannot be combined with EXP-EAS, EXP-GPIO-A options.

Recommended Option

EXP-NIC3GIG Triple Port Gigabit Ethernet Expansion option (DASDEC-II ONLY). This FACTORY INSTALLED option adds three (3) 10/100/1000BASE-T Ethernet ports for a total of four (4) unique Ethernet network interfaces. EXP-3NICGIG allows separating the streaming output and other network ports.

Compatibility

The MPEG2 option is available for DASDEC encoder models with and internal video (NTSC) output and available expansion slot:

DASTV
DASTVR

The following models are supported with the addition of the DASENCS Encoder license key.

DASLPTV
DASLPTVR

Please contact the factory regarding upgrading in-field units.

Configurations and requirements vary by site and may require additional components to properly work. Please contact your local Digital Alert Systems representative for a complete analysis and quotation.



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Specifications

Video Resolution (Max):

NTSC: 720x480@30 frames/second
(NTSC, RS-170, CCIR)

PAL: 768x576@ 25 frames/second (PAL)

Other supported video resolutions:

MPEG Video Formats:

MPEG2: D1-704
MPEG2: 2/3-D1
MPEG2: 1/2-D1
MPEG2: D1-720
MPEG2: D1-640
MPEG1: SIF
MPEG1: QSIF

Video bit-rate selectable: 10Kbps to 10 Mbps

Audio Formats:

MPEG-1 Layer 1
MPEG-1 Layer 2
VLC MPEG-1 Layer 3
VLC A52 (AC3)

MPEG Audio Bit-Rate (bits/sec)

32K
48K
56K
64K
80K
96K
112K
128K
160K
192K

MPEG Audio Sample rate: (samples/sec)

32K
44.1K
48K

User defined MPEG-2 Transport Stream Parameters

Transport Stream PAT/PMT
Transport Stream TS PMT PID
Video Stream PID
Audio Stream PID

Unicast or Multicast addressing

Assignable Port Number

Multicast TTL from 1 to 200