

## **DASDEC-1EN Digital TV Interface to Utah Scientific SqueezeMax**

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### **Introduction**

The DASDEC-1EN EAS Encoder/Decoder is controlled via a web browser over a LAN or by using a connected keyboard/monitor/mouse and the built-in desktop browser interface. The unit has 3 built-in radios for FM/AM/NOAA reception. It also has a fourth analog audio decoder input that can be connected to an external receiver. The DASDEC offers both traditional analog EAS and digital EAS via serial and LAN control protocols. The DASDEC provides an interface to one or more Utah Scientific SqueezeMax digital TV systems. Both SD and HD SqueezeMax systems are supported.

### **System Integration**

The DASDEC can interface to multiple SqueezeMax units by using the LAN based EAS NET protocol and by using a single programmable GPI input on the DASDEC to “Hold” mode. With current DASDEC software, the alert must be played on all SqueezeMax units at the same time.

A. Cygwin/SSH. Each SqueezeMax must be preconfigured with Cygwin software. This provides the secure SSH data/file transfer communication protocol. Utah Scientific usually provides this software pre-installed. This can be installed easily on units that lack the software. Contact Digital Alert Systems for details.

B. Configuring EAS NET. See the DASDEC User's Manual for details.

In short, create and configure an EAS NET client interface per SqueezeMax.

Set the checkbox controlling when EAS NET alert info is sent to **Client will send EAS NET alert info prior to alert payout.**

Configure the IP address, SqueezeMax user account name, and use SCP for the EAS NET event protocol.

Set the schema file to **SqueezeMaxHD** or **SqueezeMaxSD** depending upon the SqueezeMax being triggered from the EAS NET client interface.

Set the checkbox for EAS Translation File to “ **EAS Translation File will be sent**”.

Set the checkbox for EAS Translation File newline characters to “ **EAS Translation has newline characters removed**”.

Also, if you need to further filter which forwarded and originated alerts are sent based on FIPS codes and/or EAS codes do so in the two provided interfaces.

C. Go to the DASDEC web server page Setup->GPIO. The correct programmable DASDEC GPI setting for GPI 1 is “**Hold Non-national alerts until GPI closure**”.

When an EAS alert is originated (like a Weekly Test) or a decoded alert is forwarded, the DASDEC will start the alert notification process by sending the alert info (via EAS NET ) to each interfaced SqueezeMax unit and then goes into a holding alert payout state. The text alert

sent to the SqueezeMax places it into a pending EAS playout/crawl mode. The EAS crawl can then be triggered manually on the SqueezeMax via 2020 Master Control switcher when desired (within a few minutes). Master Control supports this action via a custom macro, associated with a panel button, which triggers the SqueezeMax EAS preset, this switches audio output to the DASDEC input, and produces a GPI contact closure for triggering (releasing the Hold state) alert playout on the DASDEC. The DASDEC goes out of it's pending/holding alert mode and plays the alert audio until finished. The same action on Master Control will cause the crawl to run on the SqueezeMax while the audio plays. When the alert is finished SqueezeMax is taken out of EAS display and Master Control returns audio back to normal program audio.

It is important to devise a workable scheme to forward decoded alerts. There are 2 choices:

1. Set all alerts that should be aired to auto-forward and let the system automatically run the process. This can be configured on the DASDEC under Setup->Decoder->Forwarding.

Or else

2. Monitor the decoded active alerts page and issue manual forward alert control via the DASDEC Web interface (under the Decoder->Decoded Alerts page). Decoded alerts can be monitored by a Web browser that is always running and redisplaying the Decoded Alerts status page or one of the DASDEC GPIO or NET GPIO relays can be used to trigger an alarm when an alert is pending and has not been acknowledged, or both.

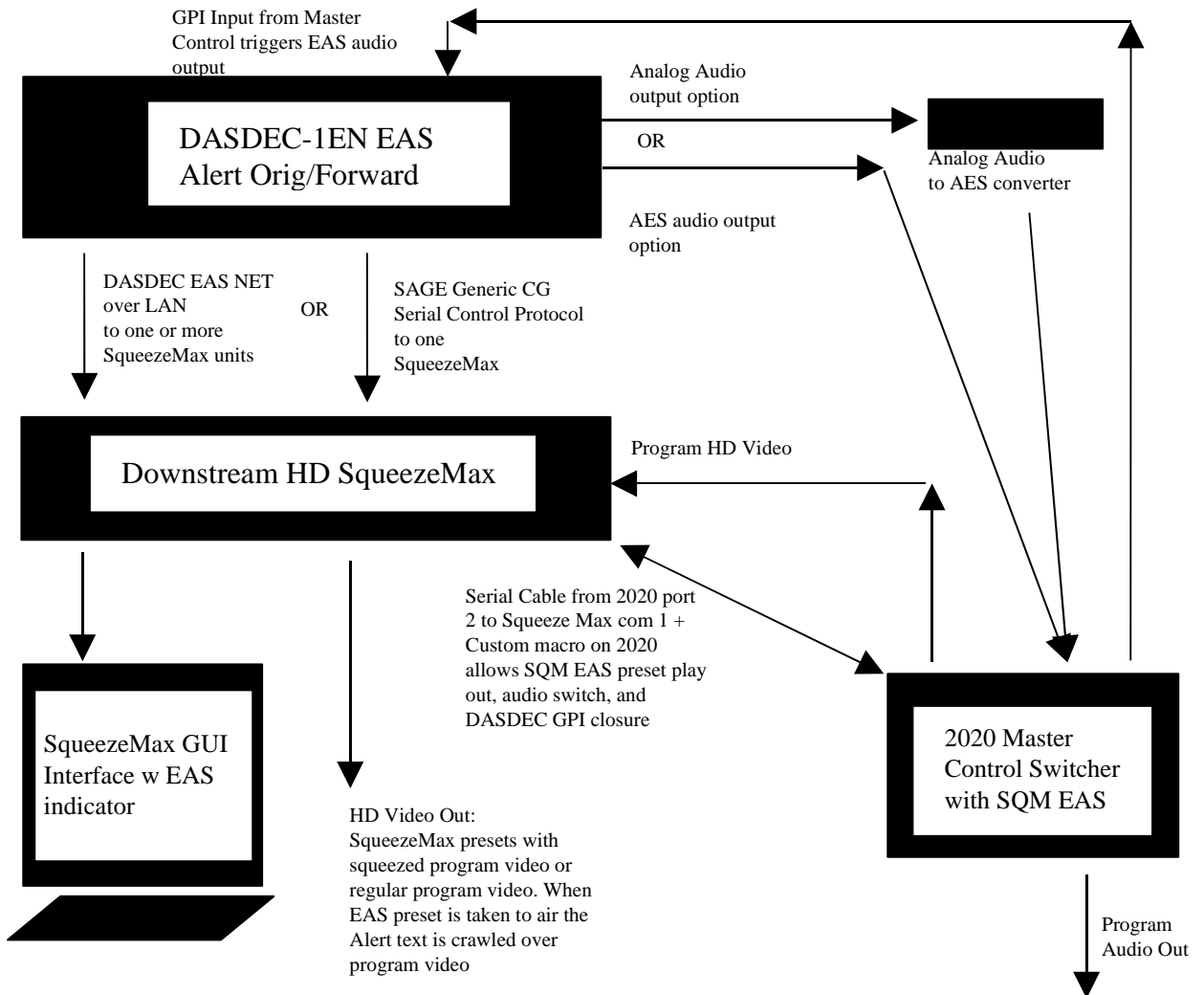
The DASDEC can also be set to play the alert on the front panel during decoding as well as play a notification audio message while an alert is unacknowledged and pending. Both of these options can be configured under Setup->Decoder->Forwarding.

The DASDEC can also be directly connected to a single SqueezeMax using a serial connection. The DASDEC will soon feature support for 4 extra serial ports via USB/serial adapter, allowing control of up to 5 total SqueezeMax units via serial.

Diagram 1 below demonstrates the interfacing with an HD SqueezeMax.

Diagram 2 below demonstrates the interfacing with an SD SqueezeMax.

**Diagram 1** :- Interfacing to a TV system with *Utah Scientific SqueezeMax* HD system with *Utah Scientific 2020* switcher, downstream mode.



**Diagram 2** :- Interfacing to a TV system with *Utah Scientific SqueezeMax* SD system with *Utah Scientific 2020* switcher, upstream mode. The description above for the DASDEC applies to an SD SqueezeMax. A DASDEC can interface to mixed SD and HD SqueezeMax units. but as described above, the alert must be played on all units at the same time.

