

# EQAM-420B with **EAS** IP to QAM



*Model:* EQAM-420B  
*Stock#:* 6522B

# EQAM-420B with EAS



• Provides a Custom Emergency Alert Management System for:

- Universities
- Government
- Stadiums
- Hospitals
- Hotels
- Retail



• No set-top boxes required

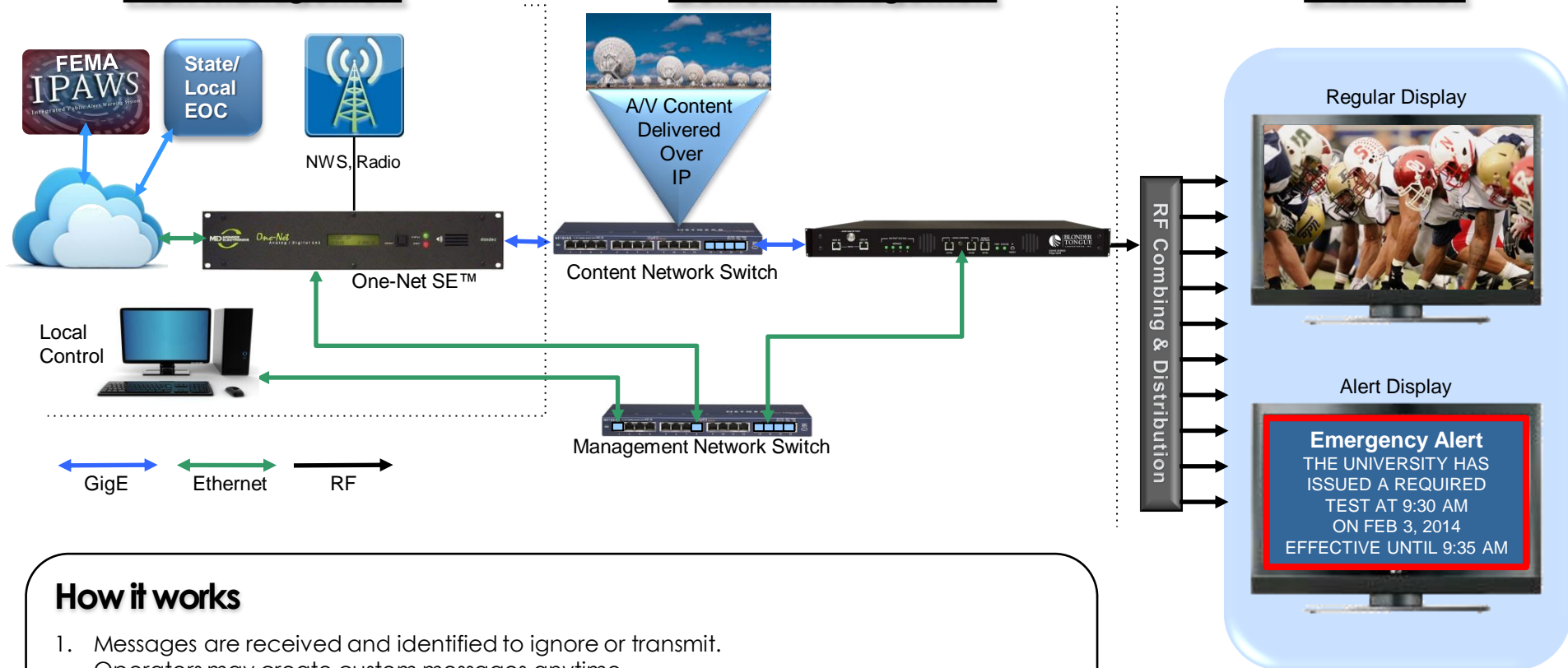


# Campus Video Emergency Management & Distribution Solution

## Alert Management

## Content Management

## Distribution



### How it works

1. Messages are received and identified to ignore or transmit. Operators may create custom messages anytime
2. Message is queued and transmitted to television distribution system
3. Standard A/V programming is replaced by full screen text video and accompanying audio
4. At end of message (typically <2min) regular programming resumes
5. System can be set to repeat message at defined intervals during active alert window



# EQAM-420B with EAS Features



- Accepts VBR (Variable Bit-Rate) and CBR (Constant Bit-Rate) Video Streams
- UDP and RTP Protocols support
- IGMPv2 and IGMPv3 support
- Provides Null Packet Insertion and Deletion
- Provides PCR correction
- Provides network EAS switching based on SCTE-18 (Program Substitution)
- Provides front-panel RF Test Point
- GUI-based menu for local & remote configuration
- Provides SNMPv2 Traps for remote monitoring
- Provides system health information via Syslog
- Remote Software Updates via FTP and Telnet
- Option to support Pro:Idiom™ Encryption



# EQAM-420B with **EAS** Benefits



- Affordable IP to QAM with custom EAS configuration for delivery of HD/SD content
- Programs can be viewed on Standard Digital TVs at all viewing locations
- Remote configuration reduces the need for site visits
- Customizable channel lineup on a per site basis
- Flexibility – both HD and SD programming in the same chassis
- Compact 1 RU design saves space and power
- Soft (IP enabled) EAS trigger, SCTE-18
- Overrides all existing programs with a full screen of the EAS message
  - Custom, Local, and National Alerts
    - IPAWS, (Integrated Public Alert Warning System),
    - National Weather Service,
    - State local EOC (Emergency Operations Center)





# EQAM-420B with EAS

## Web-based GUI



- Easy to use Web-Based GUI
  - Shows Average and Maximum bitrate in SPTS or MTPS mode
  - Indicates number of programs in MPTS
  - Provides stream ID (IP address + Port number)
  - Shows program information (PMT + PIDs)
  - Indicates QAM RF channel and status (locked or unlocked)
  - Configuration options for Major/Minor channels (SPTS only)
  - Illustrates Network information parameters
  - Displays Diagnostics page
  - Provides Event log status
  
- Import and Export Configuration file
  - Select & download/update "Config file"
  - Backup and Restore Configuration
  - Transfer "Config file" to other unit

EQAM-420B-4-64

ESN: 201389270    Temperature: 82.1°F    Uptime: 0d 1h 3m 57s  
 Headend Name:    Mode: SPTS    Location:

Main   Network   Time   Event Log   Config   Logout

Stream Input							QAM Output (KdbmV)	
#	Stream	Source	Name	IP	Bitrate	Provision	RF Chan	Status
1	UDP://239.16.100.72:50000	-	ch1	-	8.44Kbps	-	SS-1 / On	Locked
2	UDP://239.16.100.73:50000	-	-	-	8.44Kbps	Disabled	SS-2 / On	
3	UDP://239.16.100.74:50000	-	-	-	8.44Kbps	-	SS-3 / On	
4	UDP://239.16.100.75:50000	-	-	-	8.44Kbps	-	SS-4 / On	
5	UDP://239.16.100.80:50000	-	-	-	8.44Kbps	-	SS-1 / On	
6	UDP://239.16.100.81:50000	-	-	-	8.44Kbps	Disabled	SS-2 / On	
7	UDP://239.16.100.82:50000	-	-	-	8.44Kbps	-	SS-3 / On	
8	UDP://239.16.100.83:50000	-	-	-	8.44Kbps	-	SS-4 / On	
9	UDP://239.16.100.84:50000	-	-	-	8.44Kbps	-	SS-1 / On	
10	No IP Assigned	-	-	-	-	-	SS-2 / On	
11	No IP Assigned	-	-	-	-	-	SS-3 / On	
12	No IP Assigned	-	-	-	-	-	SS-4 / On	
13	QOE1 EAS UDP://239.10.10.10:1234	-	es1	-	-	-	Not Triggered	
14	QOE2 EAS UDP://239.10.10.10:1234	-	es2	-	-	-	Not Triggered	

EQAM-420B-4-64

ESN: 201389270    Temperature: 87.9°F    Uptime: 0d 0h 25m 14s  
 Headend Name:    Mode: SPTS    Location:

Main   Network   Time   Event Log   Config   Logout

Select Configuration File:     
 Download Configuration File: Right-click and choose "Save-as"   [Config File](#)



# EQAM-420B with **EAS** Modes



## □ SPTS Mode:

- Dual GigE copper Inputs that accepts up to 64 HD/SD MPEG-2/H.264 Single Program Transport Streams (SPTS)
  - 1 video and 1 audio per program
  - PMT and PID modification support
- 16 QAM available Output channels
  - Configurable with 1 to 4 QAM modules, each with 4 adjacent QAM channels
  - Mux 1 to 4 SPTS to a QAM output channel (Max 38.8 Mbps)

## □ MPTS Mode:

- Accepts up to 16 HD/SD MPEG-2/H.264 Multi Program Transport Streams (MPTS)
  - Each MPTS supports up to 6 programs (MPTS can not exceed 38.8 Mbps)
  - 1 video and 3 audios per program
  - PMT & PID values are passed thru without change
- 16 QAM available Output channels
  - Configurable with 1 to 4 QAM modules, each with 4 adjacent QAM channels
  - Each MPTS is mapped to a QAM output channel (Max 38.8 Mbps)



# EQAM-420B with **EAS**

## Possible Configurations



- SPTS Configurations:
  - 2 HD MPEG-2 per QAM
  - 3 HD MPEG-2 per QAM
  - 2 HD + 2 SD MPEG-2 per QAM
  - 4 SD MPEG-2 per QAM
  - 4 HD H.264 per QAM
- MPTS Configurations:
  - 2 HD MPEG-2 per QAM
  - 3 HD MPEG-2 per QAM
  - 6 SD MPEG-2 per QAM
  - 5 HD H.264 per QAM
  - 6 HD H.264 per QAM





# HD MPEG-2 SPTS Input With **EAS** To QAM Output

## 3 HD MPEG-2 per QAM CHANNEL

