



**Alerting Solutions, Inc.**  
The Alert and Warning Systems Specialists

**Next Generation™ Alert  
CapCon AP**

**All Purpose CAP Controller**

**CapCon AP (All Purpose)** is a CAP 1.1 receiver for warning and notification in the demanding environment of the 21st century. The Common Alert Protocol (CAP) is the standard adopted by OASIS for warning systems nationwide and in process of being international standard.

**Source** for activations can be the AlertNet-USA system provided by Alerting Solutions or by any CAP 1.1 database provided by the user. Hormann provides free configuration support and on-line tests before deployment.

**Live or Text to Speech (TTS)** auto selection is available, where the audio attached to the CAP message is played, and if there is no audio the CapCon TTS capability generates it using an easy to manage template.

**CapCon AP** monitors any CAP-compliant source, whether it's over the Internet, a satellite, or digital TV. A combination of feeds ensures message delivery and redundant paths from the source to the CapCon, increasing system reliability.

**CapCon AP** provides users with targeted messages, based on a range of

geographic areas and local interests. It automatically filters the right message for the right user.

**I/O Controls:**

- ◇ 8 high-power relay closures can activate strobe lights, buzzers and other visual and sensory alert equipment to get the attention of an operator, when an alert is activated.
- ◇ 8 digital inputs allows monitoring of auxiliary devices

**Auto-update** feature enables easy software or parameters update from a centralized location.

**Operational feedback** provides the sender with timely acknowledge upon activation.

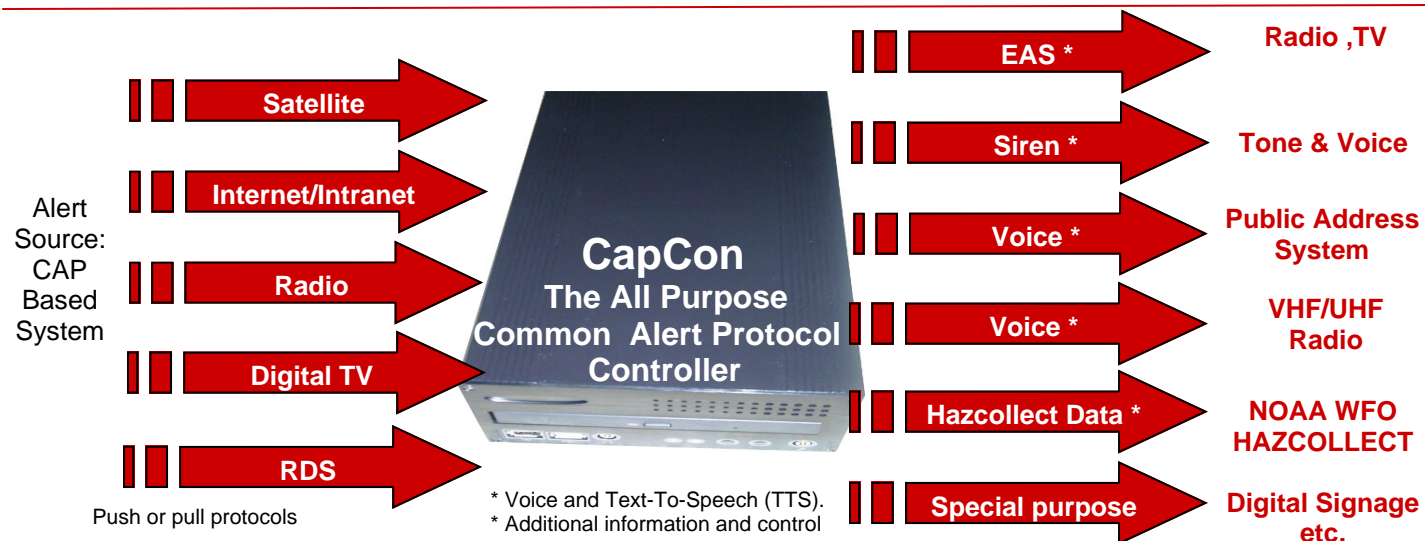
**Status monitoring** allows Alerting Solutions to provide life-time service for any system, allowing the operating agency to focus on its main mission.

**Build-in local email:** Received message can be emailed automatically to a pre-selected group, and auto-printed on a network printer using a template to convert the XML to an easy to read (rip-and-read) message.

### All In One CAP Controller

All-In One functionality eases system built up and maintenance:

- ◇ **CapConEAS** provides the standard EAS for the electronic media stations. Various feeds and communication methods available for TCP/IP and data-cast.
- ◇ **CapConSiren** activates sirens and monitors their status and operation
- ◇ **CapConPA** broadcasts the message over public address systems.
- ◇ **CapConSignage** controls various LCD displays and LED signs.
- ◇ **CapConLMR** broadcasts the message over Land Mobile Radio channels.
- ◇ **CapConHC** translates the CAP message to NOAA internal HAZCOLLECT protocol and injects it into their radio transmission at the Weather Forecast Office level.
- ◇ **CapConGate** for interconnection between various CAP systems, implementing both systems procedures and policies. Note: this software can be added to the server without adding hardware.
- ◇ **CapCon EAS2CAP** monitors radio/TV broadcast and posts EAS alerts into the Cap Server for confirmation (if issued by



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## All Purpose Common Alert Protocol Controller

### Features and Benefits

- ◇ Automatically monitor the CAP 1.1 database
- ◇ Activate alerts based on messages targeted to specific geographic areas and warning policies.
- ◇ Digital Platform for emergency messaging of digital information, including text, sound, video and text-to-speech files. Can provide complete EAS support.
- ◇ Text to Speech optional (message only or message plus EAS locally coded tones).
- ◇ Plug and play simplicity.
- ◇ Robust system with feedback to the server upon successful reception of a message.
- ◇ Highly secure system, with internal firewall.
- ◇ Connects from anywhere on the LAN, to view active as well as past alerts. Provides immediate printout of "rip-and-read" text, text-to-speech file, multimedia alert archive etc.
- ◇ CapCon AP can be customized, including activation of strobe lights, buzzers and automation systems to alert broadcasters when an alert is in process.

### AlertNet-USA Powerful Options and Add-On

- ◇ Control all alerting tools with one box! Save on training, simplify and increase reliability.
- ◇ GIS Integration for flexible geographic and hierarchical targeting—define area by GIS polygons, if desired.
- ◇ Enhanced message updating and/or cancellation.
- ◇ Inter-agency automated notification with enhanced filtering tools, to target specific audiences with specific messages.
- ◇ Automated escalation selects various sources automatically.
- ◇ Dynamic monitoring of the alerting process from start through broadcasting.
- ◇ Various reporting mechanisms available during and after an incident.
- ◇ See Alerting Solutions's brochure **3110 Integrated Warning System** for more functions and details.

Please call or email us with any questions:  
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CapCon AP

Front View

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## All Purpose Common Alert Protocol Controller

### CapCon Advantages

**CapCon AP** is the leading Common Alerting Protocol (CAP) controller for any Digital Emergency Alert and Notification System.

**How it works** CapCon AP continuously monitors the CAP-compliant server for messages and relays user-selected events to the controlled media such as a broadcast station. It immediately and reliably activates radio and TV broadcast equipment directly or via installed EAS encoders. The message can be relayed in audible EAS format, standard multimedia and in a digital format.

**Digital Platform for Emergency Messaging** Including text, sound, multimedia and images of affected geographical areas.

**Easy set-up and Automated Monitoring and Alerts** Plug and play simplicity, with intuitive user-configurable point-and-click interface. The automated monitoring and alerts require no operator input.

#### Robust System

- ◇ Automatically and seamlessly switches to alternate server in the event of a primary server (hardware or communication link) failure.
- ◇ Sends feedback to the server upon successful reception of CAP messages that passed its filter.
- ◇ Auto-update keeps CapCon AP updated with newest software.
- ◇ Self-monitoring watchdog assures the system is running, and reboots if necessary. It submits a periodically status report to the server.
- ◇ Operates in high RF fields of AM, FM and TV stations, as well as in a range of temperatures, humidity and voltage levels.
- ◇ Industrial version for outdoors installation available—call for details.

**Highly Secure** Internal firewall is always on and the system does not require external access for continuous operation. Every 3 seconds the CapCon AP polls the server and grabs new messages. The CapCon AP utilizes secure communications via HTTPS for server authentication and encryption. In addition, Norton Antivirus is used to ensure that no viruses affect the unit or compromise the network.

**Connect From Anywhere** Active as well as past alerts can be checked anywhere on the Local Area Network (LAN) or directly by attaching a monitor, keyboard and mouse to the CapCon AP.

**Customizable Configuration** CapCon AP can be highly customized, including: activation of strobe lights, buzzers and automation systems when an alert is in process.

**Datacast Reception** CapCon EAS can be equipped with a DTV data receiver PCI card to directly monitor DEAS transmission by PBS TV stations (Relay I/O and DTV reception are not available together).

### CapCon AP



#### View from back

(Standard, with relay option installed. The slim version is only the lower half of above photo)

#### CAP Standard

**CapCon AP** complies with the **Common Alerting Protocol (CAP) standard v 1.1 and 1.2**. As the OASIS Group (Organization for the Advancement of Structured Information Standards) indicates, CAP is the standard for exchanging all-hazard emergency alerts and public warning over a variety of communication channels.

CAP is the national standard in the US and has been adopted by the DHS, NOAA, FCC, FEMA, USGS and other leading organizations.

CAP is an open, non-proprietary digital message format that allows a consistent warning message to be disseminated simultaneously over many different systems. This increases warning effectiveness while simplifying warning systems.

## All Purpose Common Alert Protocol Controller

### Installation

CapCon AP can be installed on a rack shelf, and requires the following connections:

- ◇ Power: external 120/12V power supply (provided with CapCon AP) or connection to a local 12V, 7A peak 3 A average power source.
- ◇ Network connection allows the unit to poll a few CAP servers. HTTPS is used for polling. There is no need to allow externally initiated access, except for the station staff or their equipment that may need to access emergency message information stored on the unit's hard drive.
- ◇ Audio outputs include: CapCon EAS audio which immediately and reliably activates radio and TV broadcast equipment directly (with the internal relay switch) or via already installed EAS encoders. The message can be relayed in audible EAS format (FSK-encoded EAS characters), relay closure, and digital text and audio formats.
- ◇ The audio output, connects to the audio in of the delivery device as appropriate
- ◇ Additional Monitoring of performance is not required, as the CapCon AP reports its status every few seconds to the monitoring server. If local access becomes necessary, a USB mouse, keyboard and standard monitor can be used.
- ◇ CapCon AP is an open system and can be activated by any CAP-compliant (CAP V 1.1) server from any vendor.

Various configured models are available, based on implementation, such as:

- ◇ 4301 for controlling LED signs
- ◇ 4203 for interfacing with Weather Service
- ◇ 4205 for Digital Signage LCD Display

### CapCon AP Technical Specs

- ◇ CapCon AP adheres to the CAP 1.1 OASIS standard
- ◇ Fully functional Pentium 4 system up to 3.2 GHz, configured to perform like an appliance rather than as a computer
- ◇ Intel 865GV/ICH 5, support for 800 MHz FSB
- ◇ On-board two network connections 10/100/1000 LAN, USB 2, audio
- ◇ Ultra-low noise and low power consumption
- ◇ Hardware Monitor System of Processor Temperature, Voltage and Fan Speed
- ◇ 80 G 3.5" hard disk with Dual-Channel DDR 400/333/266 DIMM. 2GB Max
- ◇ Dimensions:
  - ◇ Standard: 5.8" x 10" x 2.75" (W x D x H)
  - ◇ Slim (no relays): 5.7" x 9.8" x 1.65"
- ◇ 8 input and 8 output ports for special functions (optional for the standard version)
- ◇ DTV data receiver card (optional—replaces relay card, available with standard size CapCon only)
- ◇ EAS Output: FSK-encoded EAS characters, relay closure, digital text and audio formats
- ◇ Powered by 12V power supply, or alternatively a 12V local (station) power
- ◇ ACPI 1.0b Compliance and OS Direct Power Management
- ◇ Audio output, which carries the EAS signal when EAS required
- ◇ Safety: UL, CE approved
- ◇ Optional—19" rack mount unit, wall bracket



CapCon, 19" shelf mounted



CapCon, wall mounted

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