

MODEL HD100AQ



HDTV content from local broadcast and cable



HDTV DIGITAL Decodes ATSC and QAM Signals

CElabs' HD100AQ digital receiver and signal distribution hub is a versatile STB for receiving HDTV content. The HD100AQ decodes both ATSC and QAM signals and can utilize existing RF/coax wiring. For ease of installation, this digital receiver and signal distribution hub comes with standard component video and HDMI outputs.

- HDMI and component outputs
- Tune a specific channel - the module will tune based on a menu selection of terrestrial vs. cable mode

INPUT	DESCRIPTIONS	
	Associated standard	Comments
RF Antenna Input	NTSC	Not supported
	ATSC	8VSB from antenna
RF Cable Input	NTSC	Not supported
	ATSC	8VSB on Cable
	QAM In-the-clear	64/256 QAM

- Supports closed caption functions based on FCC's requirements
 - Digital services (CS1 / 2 / 3 / 4 / 5 / 6, CC_Mute)
 - Digital caption size (default / small / large), color (default / red / green / blue / etc.), style (default / style1 / style2... / style7), background color (default / red / green / blue / etc.) and edge options
- Up/down channels (digital only)
- Support alternate channel tuning functionality along with auto-programming and channel edit of the favorite channel list
- Support AV control for the V-chip features, SCTE20/21 closed captioning and RCU control
- Mute/unmute audio outputs and freezing of the video output
- Language of menu OSDs (English, Mexican Spanish)
- AC-3 decoding and mute control
- Control the data format of SPDIF output (AC3/PCM)
- Handle time zone, daylight saving time to get the current time for the on-timer functionality
- Process in-band EA (Emergency Alert) for cable
- Video output resolution is 480p @ 59.9 Hz, 720p @ 59.9 Hz, 1080i @ 29.97 Hz
- Support menu graphics: menu design is designed for 4:3 and 16:9 TV screen
- Support "pan & scan" and "letter box" display of wide screen contents

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HDTV, Digital

Decodes ATSC and QAM Signals

SPECS	SUB-SPECS	REQUIREMENT
RF Reception	Terrestrial ATSC (8VSB)	Yes (2 - 69)
	Terrestrial NTSC	No
	Cable NTSC	No
	Cable 64QAM & 256 QAM	Yes (1 - 135 for QAM)
	Cable OOB (QPSK)	No
	Number of RF input terminal (75 Ohms F-Type)	1
Audio Processing	AC-3 Audio (DD) decoding	Yes
	AC-3 Audio down-mix	Yes
	Digital multi-lingual	Yes
Video Processing	MPEG-2 video decoding	MP@ML, MP@HL
	Decoding format	ATSC 18 formats & Cable formats
EPG	Current program display by sub picture	No
	PSIP based EPG	Yes
	Direct channel change	No
	Real-time update	Yes
	Supported languages	English, Spanish
	Multi channel EPG	Yes
GUI	DTV setup menu	Yes
	Channel information banner	Yes
	EPG	Yes
	DTV channel editor	Yes
	Display resolution	480p (740x480) 720p (1280x720) 1080i (1920x1080)
Timer Operation	EPG timer recording/viewing	No
	Manual timer recording/viewing	No
	Timer control	Auto (STT time), manual

SPECS	SUB-SPECS	REQUIREMENT
Control Interface	Control Protocol (Peripheral devices)	12C
Audio/Video Output	Digital video interface (HDMI)	Yes (with HDCP)
	Analog YPbPr out	Yes
	Analog Video CVBS out	Yes
	Analog S-video (YC)	Yes
	Display resolution	480i (CVBS, S-video), 480p, 720p, 1080i
	Analog audio output	Yes (LR stereo)
	S/PDIF audio output interface	Yes
Others	V-Chip control (Comply with EIA-766)	Yes
	Downloadable RRT	Yes
	DTVCC (Comply with FCC mandate)	Yes
	Analog CC embedded in DTV (Comply with EIA-608A)	Yes
	Cable CC (SCTE20/21)	Yes
	Auto time setting	Yes
	Display type setting (Pan & Scan, Letterbox, anamorphic)	Yes
	Auto channel scan (Including automatic channel type detection for air/cable (STD/HRC/IRC))	Yes
	Channel search by numeric keys	Yes
	Signal strength display	Yes
	Freeze frame	Yes
	Audio mute function	Yes
	INB EAS (SCTE18)	Yes
	Upgrade of DTV module's software	Serial / RF
	Reserved power on	Yes
Reserved power off	Yes	
Sleep time	Yes	

CElabs is a leading innovator in customized electronics manufacturing. We specialize in engineering, research and development of state-of-the-art technology for the audio/video signal distribution and management field.

CElabs' systems have provided numerous major retailers simple ways to assure competitive advantage, through diverse means of marketing message distribution. These include signal amplification and distribution systems for high definition video displays, customer-facing digital signage solutions, and message-centric interactive kiosk systems. All of these solutions are backed by CElabs proven expertise in planning, engineering and seamless installation, along with an unsurpassed emphasis on customer service.

Please contact your CElabs representative with any questions you may have. You'll be surprised and pleased with the wealth of potential answers you'll receive.