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#### **OVERVIEW**

StreamCast is a single-channel encoder and streamer for cost-effective video and audio processing. It supports professional encoding, modulation and IP streaming for a variety of applications such as live encoding and uploading, MDU/hospital/hotel channel insertion, live meeting broadcasts, ad/local program playback, security camera transmission, digital signage and more. With a web interface suitable for mobile devices and a built-in Wi-Fi access point, the StreamCast is easy to access and control and is the perfect tool for many different field and fixed applications.

There are a variety of models with different input and output combinations to match any use case. The inputs include HDMI, CVBS, YPbPr, SDI and USB, while the outputs are IP multicast/unicast/ HLS/RTMP/RTSP, USB and QAM modulated cable channels.

The StreamCast is an easy-to-use device that enables users to quickly setup streaming and channel modulation. Its variety of input and output options and low price make it a perfect solution for a significant number of modern video delivery applications.



#### **KEY FEATURES**

- Compact, all-in-one design
- H.264 SD/HD and MPEG2 SD quality video encoder
- MPEG, AAC and AC3 audio encoding
- Rich IP streaming protocol support including UDP/RTP multicast or unicast, HLS-OTT, RTMP and RTSP
- QAM Annex A/C digital cable RF output
- Built-in Wi-Fi access point for web interface and for streaming
- Web interface designed for access by mobile phone browsers
- Front panel screen with status, setup and control capabilities
- Recording to and streaming from USB flash drives
- Integrated 3G/4G USB dongle support (coming soon!)

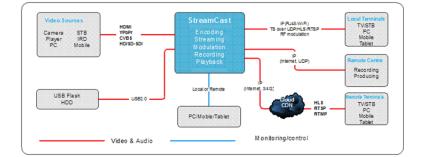
### ORDERING INFORMATION

Module	Interfaces	Description
WAV-NB100-A1	HDMI, CVBS and YPbPr Input. RJ45-IP Output. 2x USB	Basic version with HDMI/AV encoding
WAV-NB100S-A1	SDI, HDMI, CVBS and YPbPr Input. RJ45-IP Output. 2x USB	SDI advanced version





## **Network Encoder and Streamer**



#### SPECIFICATIONS

#### CHANNELS STREAMING 1 channel of H.264 HD/SD or MPEG-2 SD program Live: UDP/RTP, RTSP, RTMP, HLS Video Video encodina Off-line: WebDAV, FTP 1 pair of MPEG1L2, AAC or AC3 audio Audio Server Mode Direct streaming to connected devices (Wi-Fi or RJ45, limited number of connections supported) PHYSICAL INTERFACES 1 x HDMI (v1.4) Input MODULATION 1 x YPbPr (3.5mm adapter cable included) QAM, Annex A/C Standards 1 x CVBS (3.5mm adapter cable included) Output Range 48 - 862 MHz 1 x HD/SD-SDI (NB100S and NB100P1 only) 16/32/64/128/256 QAM Constellations 1 x RF In (NB100P1 only, for local QAM insertion) Symbol Rate 4.4 - 6.952 Ms/s 1 x RJ45 Output 1 x RF Out (NB100P1 only) **OPERATING MODES** Other I/O Embedded Wi-Fi (for wireless accessing and data Encoding and IP streaming Live transmission) Encoding and RF output 2 x USB2.0 (Storage and 3G/4G dongle) Local: USB HDD, USB flash, storage card reader Recording LCD x 1, front button x 3, Reset button x 1 via USB Control Remote: FTP and NAS (future options) Format: TS **FNCODING** Record looping (by time or size of file) H.264/AVC Profile (4:2:0) SD: MP/HP@L3.0/3.1/3.2 Local: USB HDD, USB flash, storage card reader Plavback HD: MP/HP@L4.0/4.1/4.2 via USB MPEG-2 Profile (4:2:0) SD: MP@ML In-order, random, scheduled playlist IP or RF output HD: 1920 x 1080@25p/30p/50i/60i, 1280 x Resolution 720@50p/60p SD: 720 x 576@50i, 720 x 480@60i MANAGEMENT Sub-SD resolutions Configuration Web-GUI (easy or advanced mode) or front panel Rescaling HD to SD down-conversion . Power-on and play (by preset or last MPEG-2 - 800 kbps ~ 14 Mbps Video Bit-rate configuration) H.264 - 800 Kbps ~ 14 Mbps Status/Monitoring LCD display of status Remote monitoring of status and current CBR/VBR Rate Control program GOP Control Supported Aspect Ratio Automatic or Manual (4:3 or 16:9) MANAGEMENT 144 x 118 x 38 mm (5.6"x4.6"x1.5") Dimensions Aspect Processing Letterbox/Cropping Weight 0.3 Kg (0.66 lbs) Audio Profile MPEG-1 Layer II, AAC (HE/LC), AC3 DC1: 12V DC port x 1 (Power adapter included) Power DC2: micro USB x 1 Audio Bit-rate MPEG-1 Layer II: 64 - 384 Kbps (Warning: Both DC ports can't be connected AC3: 32 - 504 Kbps simultaneously) 10° – 40° C AAC: 32 - 504 Kbps **Operating Temperature** Audio Mode Stereo (2.0, including down-mix) 48 KHz Audio Sampling Rate 0-8 dB Audio Volume Levelina

Specifications Subject To Change Without Notice

Rev 06-16

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