

# NB100 StreamCast

Network Encoder and Streamer

## 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.

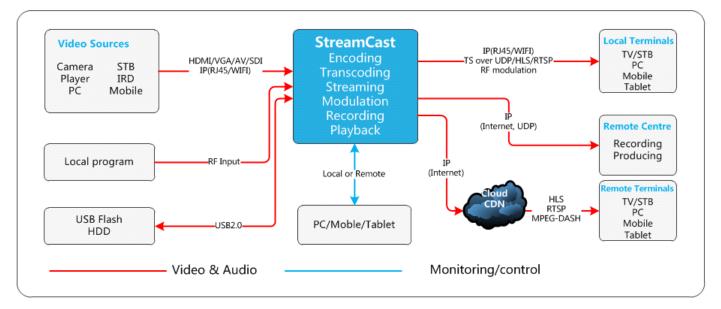
#### **KEY FEATURES**

- 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

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
WAV-NB100P1-A1	SDI, HDMI, CVBS, YPbPr and QAM-RF Input. RJ45-IP and QAM-RF Output. 2x USB	SDI and QAM A/C premium version

## ORDERING INFORMATION

#### NB100 StreamCast Network Encoder and Streamer



## SPECIFICATIONS

CHANNELS		STREAMING	
Video	1 channel of H.264 HD/SD or MPEG-2 SD program encoding	Video	Live: UDP/RTP, RTSP, RTMP, HLS Off-line: WebDAV. FTP
Audio	1 pair of MPEG1L2, AAC or AC3 audio	Server Mode	Direct streaming to connected devices (Wi- Fi or RJ45, limited number of connections
PHYSICAL INTERFACES			supported)
Input	1 x HDMI (v1.4) 1 x YPbPr (3.5mm adapter cable included) 1 x CVBS (3.5mm adapter cable included) 1 x HD/SD-SDI (NB100S and NB100P1 only) 1 x RF In (NB100P1 only, for local QAM insertion)	MODULATION Standards Output Range Constellations Symbol Rate	QAM, Annex A/C 48 - 862 MHz 16/32/64/128/256 QAM 4.4 - 6.952 Ms/s
Output	1 x RJ45 1 x RF Out (NB100P1 only)	OPERATING MODES	
Other I/O	Embedded Wi-Fi (for wireless accessing and data transmission)	Live	Encoding and IP streaming Encoding and RF output
Control	2 x USB2.0 (Storage) LCD x 1, front button x 3, Reset button x 1	Recording	Local: USB HDD, USB flash, storage card reader via USB Remote: FTP and NAS (future options)
ENCODING H.264/AVC Profile (4:2:0)	SD: MP/HP@L3.0/3.1/3.2	Playback	Format: TS Record looping (by time or size of file) Local: USB HDD, USB flash, storage card reader
MPEG-2 Profile (4:2:0)	HD: MP/HP@L4.0/4.1/4.2 SD: MP@ML	ГІДУОДСК	via USB In-order, random, scheduled playlist
Resolution Rescaling	HD: 1920 x 1080@24p/25p/30p/50i/60i, 1280 x 720@50p/60p SD: 720 x 576@50i, 720 x 480@60i Sub-SD resolutions HD to SD down-conversion	MANAGEMENT Configuration	IP or RF output Web-GUI (easy or advanced mode) or front panel
Video Bit-rate	MPEG-2 - 800 kbps ~ 14 Mbps		Power-on and play (by preset or last configuration)
Rate Control	H.264 - 800 Kbps ~ 14 Mbps CBR/VBR	Status/Monitoring	LCD display of status Remote monitoring of status and current program
GOP Control	Supported		program
Aspect Ratio	Automatic or Manual (4:3 or 16:9)	DIMENSIONS/POWER	
Aspect Processing	Letterbox/Cropping	Dimensions Weight	144 x 118 x 38 mm (5.6"x4.6"x1.5") 0.3 Kg (0.66 lbs)
Audio Profile	MPEG-1 Layer II, AAC (HE/LC), AC3	Power	DC1: 12V DC port x 1 (Power adapter included)
Audio Bit-rate	MPEG-1 Layer II: 64 - 384 Kbps		DC2: micro USB x 1
Audio Mode	AC3: 32 - 504 Kbps AAC: 32 - 504 Kbps Stereo (2.0, including down-mix)	Operating Temperature	(Warning: Both DC ports can't be connected simultaneously) 10° – 40° C
Audio Sampling Rate	48 KHz		
Audio Volume Leveling	0-8 dB		

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