



## TBS2603 PoE NDI®|HX Supported H.265/H.264 Video Encoder / Decoder

NDI®|HX | H.265/H.264 | HDMI Encoder | HDMI Decoder

TBS2603 PoE is a NDI®|HX supported H.264/H.265 video Encoder, a professional HD video Encoder/Decoder, and a HDMI/USB video recorder. With PoE (Power over Ethernet) support, it will receive electrical power as well as the data from a standard Ethernet cable, which made the installation simpler than normal encoders and no need power supply anymore. What' s more, PoE injectors and switches will not damage any equipment, IEEE802.3af/at/bt compliant PoE technology is safe.

As an encoder, TBS2603 PoE allows to send your video source through the local network, over Ethernet in normal protocol of HTTP/HLS/RTSP/RTP/UDP/RTMP/RTMPS, or in NDI®|HX streams for use with other NDI®|HX compatible systems.

As a decoder, TBS2603 PoE supports video source from HDMI video, IP streams or NDI®|HX streams. It supports "H.265 Main Profile, Level 4.1 & H.264 Baseline/Main/High Profile Level 4.2" decode. Up to H.265 Main 1920x1080@60fps decode.

TBS2603 PoE NDI®|HX use a high efficiency, low bandwidth form of NDI®, which allows to send your HDMI video source through your local network, over Ethernet for use with other NDI®|HX compatible systems. It helps to connect your video cameras and other devices to your live production system, video applications or streaming devices.





### Features:

- Visual input (Preview)
- HDMI video input, UVC Camera input or NDI®|HX streams input.
- NDI®|HX streams output, HDMI video out, or USB output for recording
- H.264/H.265 Encode & Decode, up to 1920x1080P\_H.265@60fps Encode. And H.265 Main Profile, Level 4.1 Decode
- HDMI-embedded & Line-in Audio input
- AAC, MP3, MP2, PCMA audio encoding
- MP4/TS/FLV/MKV/MOV format recording
- Bitrate is adjustable 500kbit/s -20Mbit/s
- Support HTTP, HLS(m3u8), SRT, RTP/UDP Unicast, Multicast, RTSP, RTMP/RTMPS, ONVIF
- Support NDI | HX2 based on NDI 5.x
- Support inserting Logo, Text, Mosaics and Time Display to the video
- Support output displayed video resolution and frame rate setting (max 1920x1080P@60hz)



**Specification:**

Model Number	TBS2603 PoE
Video Input	1x HDMI 1.4, NDI®  HX streams, 1x USB2.0 from UVC Camera
Audio Input	HDMI-embedded, Line-in (Jack 3.5mm)
OLED display	IP, input video resolution, CPU utilization, Core temperature
<b>Encode</b>	
Video Input Resolution	1920x1080P_50/60HZ; 1920x1080I_50/60HZ;1280x720P 50/60HZ; 720x576;640x480, 360p, and etc.
Video Output Resolution	1920x1080P@60fps;1680x1050;1280x720;1024x576;850x480; 720x576;720x480;640x480;480x360;360x240; auto; customized and etc.
Video Encode	H264 Base line, H264 Main, H264 High, H265 Main
Video Bit Rate	0.5Mbps-20Mbps
Bit Rate Control	CBR, VBR, AVBR, FIXQP
Protocol	NDI®  HX, HTTP, HLS(M3U8), RTSP,SRT, RTP/UDP Unicast/Multicast, RTMP(RTMPS)
Audio Encode	AAC, MP3, MPEG2, PCMA
Audio Sampling rate	16K, 32K, 44.1K, 48K
Audio Sampling precision	16 bit
Audio Bit Rate	32Kb/s ~ 256Kb/s
<b>Network Stream IN</b>	
Video	H264 Baseline, Main, High Level 4.2 ; H265 Main, Level 4.1
Audio	MPEG2, MP3, AAC
Protocol	NDI®  HX stream, HTTP, RTSP, RTP/UDP, SRT, RTMP (pull)
<b>Decode</b>	
Video code	H.265 Main Profile, Level 4.1; H.264 Baseline/Main/High Profile Level 4.2



Audio code	Mpeg2, MP3, AAC
Source	HDMI in decode; Network stream decode, NDI decode
<b>Record</b>	
USB record	To USB flash disk or USB hard disk
Format	*.MP4; *.TS, *.FLV, *.MKV, *.MOV
<b>System</b>	
Ethernet / RJ45	1000 Base-T Ethernet interface IEEE 802.3af PoE supported
Supported System	Windows XP/VISTA/SERVER/WIN7/WIN10 ; Linux; MAC OS
Control	WebUI
<b>General Spec.</b>	
Dimension	100*6*31.5mm
Power Consumption	Less than 6W