Key Features

- Up to 3 x 1080P60 Inputs
- NDAA Approved
- H.265 Low Bit Rate
- 100ms Low Latency*
- Micro Size
- Mix & Match Inputs (HD-SDI, HDMI, USB or CVBS)
- HDMI Loop Out for Local Viewing

Product Description

ANT-1776 is a powerful H.265 tiny form factor miniature sized encoder which can also be used as a decoder (HDMI output).

Capable of encoding up to 3 x 1080P60 streams simultaneously of various input types, this encoder is the best in its class.

Choose 1 or 2 x input mezzanine options of HDMI, HD-SDI 1 x CVBS or 4 x CVBS boards, in addition to the inbuilt 1 x USB on board input.

ANT-1776 has a HDMI output so can either be used as a local output for video display or as a dedicated decoder. When paired with another ANT-1776 can deliver low latency hardware to hardware of apx 100ms. Or you can use our low latency decode software/player for Windows, Linux and Android.

H.265 delivers powerful low bit rate performance, with excellent results in video quality.

On board local recording using EMMC 32GB+USB OTG and fitted with a customised heat sink.

The ANT-1776 streams over wired and wireless networks, supporting Unicast, Multicast, Broadcast in UDP, RTP, RTSP with Forward Error Correction (FEC) support.

System	Mode	Encoder or Decoder
	System Standards	RTSP, MPEG-TS, Unicast, Multicast, RTP
	System Latency	<150mS (system dependant) apx 100ms with Neptune Player or App
Video	Compression	H.264 or H.265
	Profile	Baseline
	Frame Rate	1-60 fps
	Bit Rate	10Kbps to 20Mbps
	Mode	GOP
	Bit Rate Control	CBR, VBR
	Min Resolution	320 x 240
	Max Resolution	1920 x 1080 P60
	Number of Streams	Primary 1 x H.265/4 / Secondary 1 x H.265/4 per input
	Inputs	Any 2 Inputs of HDMI / HD-SDI / CVBS/ 4x CVBS (depends on boards chosen) + 1 x USB Input on Main Board
	Input Combinations	Any 3 Inputs
	Outputs	micro HDMI Output (decoder mode only)
	Output Combinations	IP (encoder mode) / HDMI (decoder mode)
	On Screen Display	English Only
Audio	Mode	??
	Compression	G.711, G.726, MP2, MP3, OPUS
	Sample Rate	8kbps, 44.1kbps, 48kbps CODEC dependent
	Bit Rate	CODEC dependent
	Streaming	TBC
	Inputs	1x onboard MEMS or external microphone
	Outputs	1x line output
Network	Interface	100-1000 Ethernet RJ45
	Protocols	IPv4/v6, TCP, UDP, IGMP(Multicast),HTTP,RTSP,DNS
	Security	None
	Configuration	SDK, WEB
Data	Type	2 Way UDP to serial support
	Interface	RS-232
	Protocol	Clear
	Alarm	n/a
	Sensor	n/a
Event	Sources	n/a
	Actions	n/a
Power	Supply	5v ±0.1v DC
	Adapter input volts	N/A
	Adapter Output Voltage	N/A
	Consumption	Less than 4w with 2 x HD-SDI @ 1080P30, recording & streaming
Recording	Edge Storage	EMMC 32GB+USB OTG
Temperature	Operating Range	-40C + 85C (Tested to MIL-STD-810G Standard)
Physical	Dimensions	54.1 x 27.1 x 17.4mm (Main board with 2 x mezzanines + Heat Sink)
	Weight	32g with Heat Sink + 2 x Mezzanines / Heat Sink =12g
	Housing	PCB Only
General	Certifications	RoHS
	Software	IP Finder + Player (video decode and display)
	Warranty	12 Months
	Remote	N/A
	Reset	Web interface or IP finder
Control & Set Up	Set Up	Web interface or API
	Control	Web interface or API
	Upgrade	Firmware Upgrade via webpage or IP finder tool
In the Box	Contents	PCB, Chosen Input Boards and Optional Leads
	Power Cable/adapter	Cable available