



Key Features

- Up to 3 x 1080P60 Inputs
- HDMI, USB & CVBS Inputs
- NDAA Approved
- Designed for UAV & Drones
- H.265 Low Bit Rate
- 100ms Low Latency*
- Micro Size
- HDMI Loop Out for Local Viewing
- AI Optional Add-On Mezzanine

Product Description

ANT-1776UAV is an advanced UAV or Drone-oriented encoder with H.264/5 codec and 3 x input types HDMI, USB & CVBS, you can choose to use 1, 2 or 3 inputs at a time. The product comes with a durable, flexible ribbon HDMI connector.

The main encoder board can handle multiple streams simultaneously (up to 8MUX) and supports end-to-end 100msec ultra-low-latency streaming over networks using either another hardware ANT-1776 product, or the dedicated software based player (provided) for Windows, Linux and Android. The ANT-1776UAV supports Unicast, Multicast, Broadcast in UDP, RTP, RTSP with Forward Error Correction (FEC) support. Capabilities include video and audio capture, encoding, decoding, transcoding and display, and video raw-data pre-processing.

With the option to add an AI acceleration module, which includes/adds powerful Hailo-8, 26 TOPS AI Accelerator enabling high AI accuracy detection & tracking as well as hosting customers AI processes. Yolo5 is included as standard, but customisation is also possible.

ANT-1776UAV

PRODUCT TECHNICAL SPECIFICATION



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	Up to 8 x MUX per Board
	Inputs	Any 2 Inputs of HDMI or CVBS + 1 x USB Input
	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 8kbps, 44.1kbps, 48kbps CODEC
	Sample Rate	dependent CODEC dependent TBC 1x onboard MEMS or external
	Bit Rate	microphone 1x line output 100-1000 Ethernet RJ45 IPv4/v6, TCP,
	Streaming	UDP, IGMP(Multicast), HTTP, RTSP, DNS
	Inputs	None
	Outputs	SDK, WEB UART
Network	Interface	Dual UART
	Protocols	Clear
	Security	n/a
	Configuration	n/a
	Type	n/a
Data	Interface	n/a
	Protocol	12v ±0.1v DC (<5-12W)
	Alarm	N/A
	Sensor	N/A
	Sources	Less than 4w with 2 x HD-SDI @ 1080P30, recording & streaming
Event	Actions	6GB LPDDR4 32GB EMMC
	Supply	-40C + 85C (Tested to MIL-STD-810G Standard)
Power	Adapter input volts	25.4 x 50.8 mm
	Adapter Output Voltage	11g Main Board Only – 15g with HDMI Cable attached
	Consumption	PCB Only
	Edge Storage	RoHS
	Operating Range	IP Finder + Player (video decode and display)
Recording	Dimensions	12 Months
Temperature	Weight	N/A
Physical	Housing	Web interface or IP finder
	Certifications	Web interface or API
	Software	Web interface or API
General	Warranty	Firmware Upgrade via webpage or IP finder tool
	Remote	PCB with HDMI Cable
	Reset	Cables available as option, first set required as reference
	Set Up	
	Control	
Control & Set Up	Upgrade	
	Contents	
	Power Cable/adaptor	
In the Box		

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