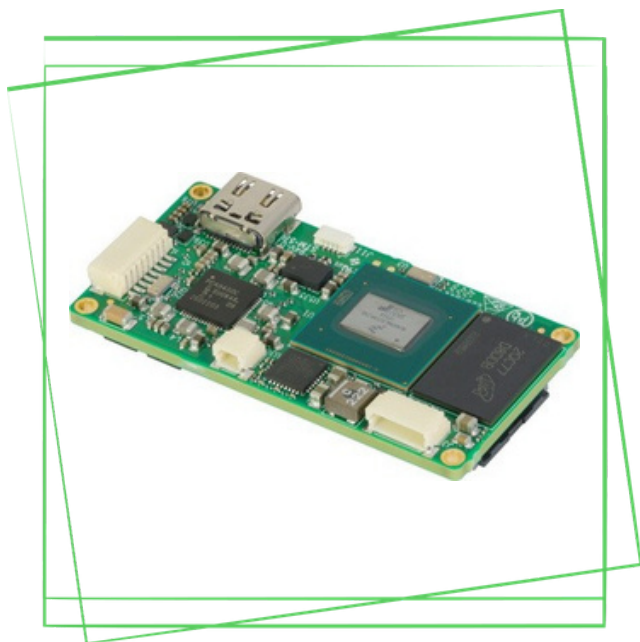


ANT-1776UAV

PRODUCT TECHNICAL SPECIFICATION



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

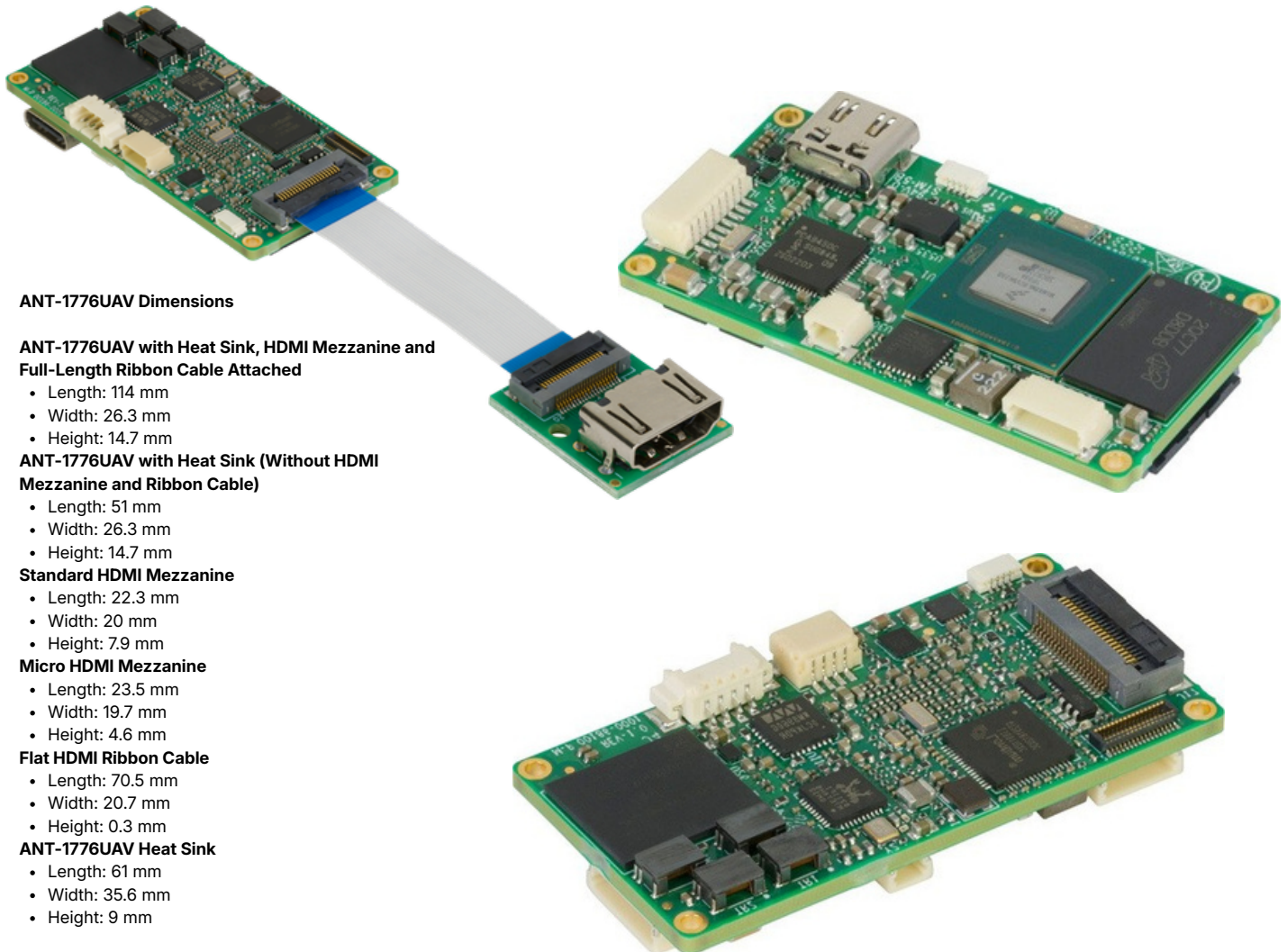
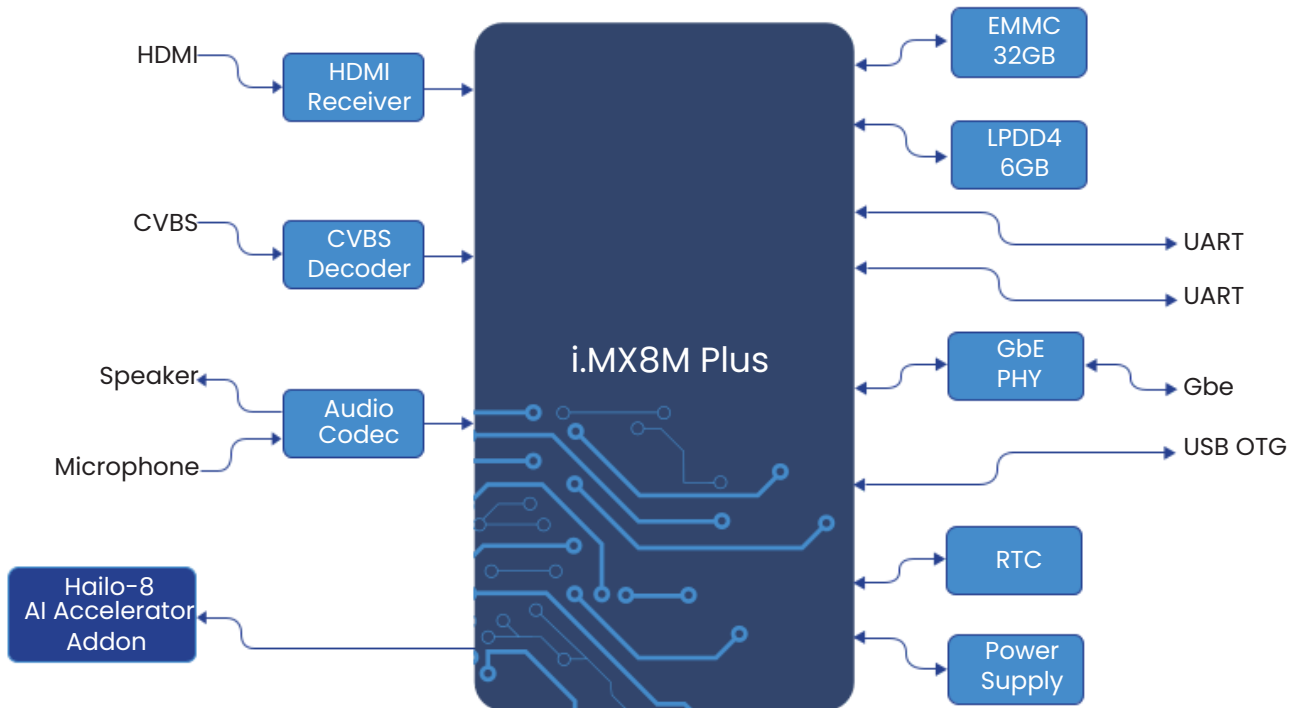
ANT-1776UAV is an advanced UAV or Drone-oriented encoder with H.264/5 codec and 3 x input types HDMI, USB & CVBS, you can choose to use 1, 2 or 3 inputs at a time. The product comes with a durable, flexible ribbon HDMI connector.

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



ANT-1776UAV Dimensions

ANT-1776UAV with Heat Sink, HDMI Mezzanine and Full-Length Ribbon Cable Attached

- Length: 114 mm
- Width: 26.3 mm
- Height: 14.7 mm

ANT-1776UAV with Heat Sink (Without HDMI Mezzanine and Ribbon Cable)

- Length: 51 mm
- Width: 26.3 mm
- Height: 14.7 mm

Standard HDMI Mezzanine

- Length: 22.3 mm
- Width: 20 mm
- Height: 7.9 mm

Micro HDMI Mezzanine

- Length: 23.5 mm
- Width: 19.7 mm
- Height: 4.6 mm

Flat HDMI Ribbon Cable

- Length: 70.5 mm
- Width: 20.7 mm
- Height: 0.3 mm

ANT-1776UAV Heat Sink

- Length: 61 mm
- Width: 35.6 mm
- Height: 9 mm

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	320x240
	Max Resolution	1920x1080p60
	Number of Streams	Up to 8x MUXper Board
	Inputs	Ant 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	
	Sample Rate	G.711, G.726, MP2, MP3, OPUS
	Bit Rate	8kbps, 44.1kbps, 48kbps CODEC Dependent
	Streaming	CODEC Dependent
	Inputs	TBC
	Outputs	External Microphone
Network	Interface	1x Line Output 100-1000 Ethernet RJ45
	Protocols	IPv4/v6, TCP, UDP, IGMP (Multicast), HTTP, RTSP, DNS
	Security	None
	Configuration	SDK, WEB
	Type	UART
Data	Interface	DUAL UART
	Protocol	Clear
	Alarm	N/A
	Sensor	N/A
	Sources	N/A
Event	Actions	N/A
	Supply	12v $\pm$ 0.1v DC (<5-12W)
Power	Adapter Input Voltage	N/A
	Adapter Output Voltage	N/A
	Consumption	Less than 4w with 2x HD-SDI @ 1080p30; Recording & Streaming
	Edge Storage Operating	6GB LPDDR4 32GB EMMC
Recording	Range	-40C + 85C (Tested to MIL-STD-810G Standard)
Temperature	Dimensions	25.4 x 50.8mm
Physical	Weight	11g Main Board Only - 15g with HDMI Cable Attached
	Housing	PCB Only
	Certifications	RoHS
General	Software	IP Finder + Player (Video Decode & Display)
	Warranty	12 Months
	Remote	N/A
	Reset	Web Interface or IP Finder
	Set Up	Web Interface or API
Control & Set Up	Control	Web Interface or API
	Upgrade	Firmware Upgrade by Webpage or IP Finder Tool
	Contents	PDB with HDMI Cable
In The Box	Power Cable/Adapter	Cables Available as Option, First Set Required as Reference