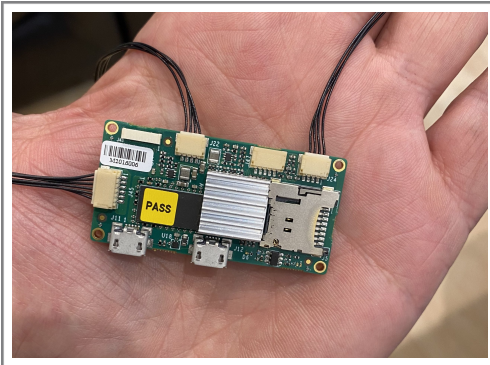


ANT-1774 Nano Ultra UAV, HDMI / HD-SDI / Composite, Low Latency H.265/4 HD Video Encoder
Product Code: ANT-1774



Key Features

- **Inputs 2 x HD-SDI or 2 x HDMI, 2x CVBS analogue or any 2 combinations ,other options to follow**
- **2 x 1080P60 HD interfaces with onboard SD card recording .**
- **Dual pluggable option boards for HD or SD Video interfaces gives flexibility for video inputs**
- **H.265 support for low bit rate and H.264 backward compatible**
- **Low Latency 100ms with Neptune Player application**
- **Unicast, Multicast Broadcast, RTP Uni/Multicast and RTSP via UDP Streams**
- **Two powered USB ports for future memory use. Connection to an external USB powered port will damage the ANT-1774**

Product Overview

ANT-1774 ULTRA Nano UAV, 3G HD-SDI /HDMI, Low Latency H.265 H.264 HD Video Encoder .

Capable of 2 x HD channels at 1080P60 or any combination of 3G HD-SDI , HDMI or composite video using an IP LAN ethernet connection.

This module could possibly be the worlds smallest video encoder of its type and specification. Future Video interfaces will be added such as Analogue HD, Component video and more.

Streaming in both RTSP and RTP (Unicast/Multicast) formats over an Ethernet connection to the Drones / unmanned vehicle Radio link. Low bitrate video performance, video is good quality at low bit rates.

Using a low latency player/ decoder video latency of 100mS is achieved in this small low weight module. SD card recording is on the main motherboard and HD video modules are identical to those used on the ANT-1773. The UAV ULTRA Nano also supports video plus audio streaming and multi HD Video input support at 1080P60. HDMI + HDMI , HD-SDI + HD-SDI, CVBS+CVBS or mixtures and in future other video formats makes this an easily upgradable future proof platform.

Multiple streaming formats are supported such as Unicast, Multicast and RTSP/RTP.

The ANT-1774 is powered by 5v +/-0.1 v DC only and power consumption of 3.75w typical (One HDSDI 1080P60 stream example).

Audio support : 1x onboard MEMS or external microphone and 1x line output

2 way UDP to serial support

Size: 25.4 x 50.8 x 15 mm.

Weight: 16g.(with 2 modules attached)

Operating temperature range is – 40c to +85 c.

44.1 and 48KHz audio is supported with embedded audio HDMI supported.

A few of the applications are:

- ✓ Encoding video in UAV / Robotic
- ✓ Unmanned vehicles / submarine

This product is not limited to the markets and applications described.
Please download or full application catalogue here.

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Technical Specification

System	Mode	Encoder
System	Standards	RTSP,RTP both Unicast or Multicast (The Internal Stream Format is Elementary Stream)
System	Latency	<150mS (system dependant) apx 100ms with Neptune Player
System	MTU	MTU control
Video	Compression	H.264 or H.265
Video	Profile	H.264 : High Profile, H.265 : Main Profile
Video	Frame Rate	1-60 fps
Video	Bit Rate	Min : 5kbps Max: 99mbps
Video	Mode	GOP Supported
Video	Bit Rate Control	CBR Only
Video	Min Resolution	192 x 144
Video	Max Resolution	1920 x 1080 P60
Video	Number of Streams	1 x per Module for Streaming + 1 x per Module for recording
Video	Inputs	Any 2 Inputs of HDMI / HD-SDI / CVBS (depends on boards chosen)
Video	Input Combinations	Any 2 Inputs
Video	Outputs	IP streaming output, serial data passthrough (UDP to Serial like in the Neptune)
Video	Output Combinations	IP Streaming Only
Video	On Screen Display	English Only
Audio	Mode	Mono
Audio	Compression	AAC
Audio	Sample Rate	48KHz
Audio	Bit Rate	48kbps
Audio	Streaming	RTSP,RTP, (Unicast,Multicast)
Audio	Inputs	Onboard MEMS
Audio	Outputs	No Output
Network	Interface	100 Ethernet RJ45
Network	Protocols	DNS, IPv6, HTTP - has: IPV4, RTSP
Network	Security	None
Network	Configuration	Network Configuration through API
Data	Type	2 Way UDP to serial supported
Data	Interface	RS232
Data	Protocol	Transparent
Data	Alarm	N/A
Data	Sensor	N/A
Event	Sources	N/A
Event	Actions	N/A
Power	Supply	5v +-0.1 v DC only
Power	Adapter input volts	N/A
Power	Adapter Output Voltage	N/A
Power	Consumption	3.75 typical (with 1 x HDSDI 1080P60 example)
Recording	Edge Storage	SD Card Only
Temperature	Operating Range	-40C + 85C
Physical	Dimensions	25.4 x 50.8 x 15mm
Physical	Weight	16g (with 2 x input modules attached)
Physical	Housing	PCB Only
General	Certifications	RoHS
General	Software	Configuration Application or Neptune Player
General	Warranty	12 Months
General	Remote	N/A
General	Reset	Configuration Application via IP or Serial
Control & Set Up	Set Up	Configuration Application
	Control	API
	Upgrade	Firmware Upgrade via SD Card
In the Box	Contents	PCB, Chosen Input Boards and Optional Leads
	Power Cable/adapter	N/A