



Key Features

- Sony Zoom Block Encoder
- Flir Lepton & Boson Encoder
- Tenum 640 Encoder
- LVDS, USB, SPI & CVBS
- Up to 3 x HDP60 Inputs
- NDAA Approved
- H.265 Low Bit Rate
- 100ms Low Latency
- Micro Size

Product Description

ANT-1776ZB is a powerful board based H.265 or H.264 tiny form factor miniature sized encoder which has been designed to encode and be compatible with Sony Zoom Blocks FCB-EV7520, FCB-EV9520L and FCB-EV9500, Tenum 640 & FLIR Boson and Lepton cameras.

You can encode input combinations of 2 x LVDS or 1 x LVDS + 1 CVBS or 1 x LVDS + Cameralink + USB 3.0 and SPI.

The ANT-1776ZB 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-1776ZB 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.

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

This unit is designed to function at extreme temperatures as has been tested to -40C + 85C (Tested to MIL-STD-810G Standard).

Designed to be integrated into an enclosure as it is a base board product, example applications for this type of product would be UAV, unmanned vehicles & drones etc.

ANT-1776ZB

PRODUCT TECHNICAL SPECIFICATION



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System	Mode	Encoder or Decoder
	System Standards	RTSP, MPEG-TS, Unicast, Multicast, RTP, RTMP
	System Latency	<150mS (system dependant) apx 100ms with Neptune Player or App
Video	Compression	H.264, MJPEG 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
	Inputs	2 x LVDS or 1 x LVDS + 1 x CVBS or 1 x CVBS + 2 x USB + 1 x LVDS or 1 x LVDS + Cameralink + USB and SPI
	Input Formats	USB: TypeC YUV, UYVY (MJPEG H264 future Firmware) LVDS Sony,
	Input Combinations	2/3/4 (see above)
	Outputs	micro HDMI Output (decoder mode only)
Output Combinations	IP (encoder mode) / HDMI (decoder mode)	
	On Screen Display	English
Audio	Mode	Audio via a microphone input compressed by an audio codec and streamed with Video
	Compression	G.711, (G.726, MP2, MP3, OPUS in future Firmware)
	Sample Rate	8kbps, 44.1kbps, 48kbps CODEC dependent
	Bit Rate	CODEC dependent
	Streaming	Audio embedded in MPEG-TS and RTSP Video+Audio
	Inputs	microphone level input
	Outputs	Line out, speaker(decode)
Network	Interface	100-1000 Ethernet RJ45
	Protocols	IPv4, TCP, UDP, IGMP(Multicast), HTTP, RTSP, DNS (NTP in future FW)
	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 OR 12v ±0.1v DC camera dependent
	Adapter input volts	N/A
	Adapter Output Voltage	N/A
	Consumption	13W Max (LVDS + USB / camera dependent)
Recording	Edge Storage	32GB EMMC + USB OTG
Temperature	Operating Range	-40C + 85C (Tested to MIL-STD-810G Standard)
Physical	Dimensions	58.4 x 48.3 x 9.3cm
	Weight	22g
	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/adaptor	Cable available

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