

# ANT-7000 KVM + Ultra Low Latency (30mS) HD 1080P60 H.264 Video Encoder & Decoder, Transmitter & Receiver Pair

Product Code: ANT-7000

### **Key Features**

- · 1920 x 1080 P60 Max Resolution,
- Ultra Low Latency (30ms) glass to glass
- KVM Function -Decoder + Keyboard Mouse controls PC connected to Encoder
- H.264 Video Encoder & Decoder Pair (Transmitter & Receiver)
- HDMI Loop + USB Output(Encoder) & HDMI Video Out + 4 x USB Hosts (Decoder) for KVM control
- RTP/UDP/IP

#### **Product Overview**

The ANT-7000 is an Encoder + Decoder pair for streaming ultra low latency 1080P60 HDMI video in typically 30mS at typically 12MBits/sec over IP. The products can be used as general purpose Ultra Low Latency HDMI encoders and Decoders to send HDMI over any 10/100/1000 Ethernet LAN in 30mS . Alternatively the units also feature USB inputs and Outputs which can send Keyboard and Mouse signals from the decoder to the encoder and on to the remote PC. This allows the decoder to effectively control the remote PCs Keyboard and Mouse (see diagram).

The Encoder supports HDMI input / output connections allowing the remotely located PCs monitor to be looped through the encoder. A USB port connects to the remotely located PC and mimics a keyboard and mouse.

The Decoder outputs HDMI video which is connected to a monitor and displayed. Locally 4 x USB 2.0 ports allow connection to a keyboard and Mouse. Two-way RS232 ports are supported for other remote control applications

Streaming formats supported are RTP/UDP/IP and http web interface for setup.

The encoder & decoder can be powered via 12V DC or PoE and consume typically 5W each Audio is supported with embedded audio via HDMI.

Supports DTV, VESA & 3D video resolution standards

Key applications for this product include remote KVM requirements and Low latency video over IP e.g

Remote server room KVM control & Live Video Broadcast to Big Screens (Live Events).

Please note to achieve the low latency and KVM features these products are designed to be used as a pair. For separate encoder and decoder enquiries please contact sales@antrica.com

A few of the applications are:

- Encode a broadcast camera for low latency decoding on screen
- Encode a live event where latency need to be low to avoid audio delay and lag
- Digital Signage

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



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## **Technical Specification**

ANT-7000 Tech Specs		ANT-7000E	ANT-7000D
Custom	Mada	Encoder	Decoder
System	Mode Standards	Encoder RAPID264/RTP/RTSP/UDP/IP	RAPID264/RTP/RTSP/UDP/IP
System System	Latency	30mS typical End to End	30mS typical End to End
System	Latericy	Soms typical End to End	Soms typical End to End
Video	Compression	H.264	H.264
Video	Profile	Baseline Level 4.2	Baseline L 4.2
Video	Frame Rate	1- 60fps	1- 60fps
Video	Bit Rate	32kbps-40 mbps	32kbps-40 mbps
Video	Mode	GOP , Rand & Contra Refresh	GOP , Rand & Contra Refresh
Video	Bit Rate Control	CBR, VBR	CBR, VBR
Video	Min Resolution	720 x 480	720 x 480
Video	Max Resolution	1920 x 1080 plus VESA and DTV resolutions	1920 x 1080 plus VESA and DTV resolutions
Video Video	Number of Streams Inputs	Primary 1 x H.264 1 x HDMI V1.3 (DVI)	Primary 1 x H.264 USB x4
Video	Input Combinations	HDMI only	N/A
Video	Outputs	HDMI V1.3 Output (Bypass)	HDMI V 1.3 + USB control
Video	Output Combinations	HDMI only	HDMI out
Video	On Screen Display	English	English
Audio	Mode	Duplex Stereo Audio	Duplex Stereo Audio
Audio	Compression	2 Channel embedded Linear PCM	2 Channel embedded Linear PCM
Audio	Sample Rate	48 / 44.1 kHz	48 / 44.1 kHz
Audio	Bit Rate	3mb/s (uncompressed)	3mb/s (uncompressed)
Audio	Streaming	1 way stereo	1 Way Stereo
Audio	Inputs	Embedded HDMI Audio	N/A
Audio	Outputs	N/A	Embedded HDMI Audio
Network	Interface	10-100 Ethernet RJ45	10-100 Ethernet RJ45
Network	Protocols	IPv4, TCP, UDP, RTP HTTP IP	IPv4, TCP, UDP, RTP HTTP IP Password Protection
Network	Security Configuration	Password Protection SDK, WEB	SDK, WEB
Network	Configuration	SDK, WEB	SDK, WEB
Data	Туре	Serial 2 Way RS232	Serial 2 Way
Data	Interface	RS232	RS233
Data	Protocol	Proprietry	Proprietry
Data	Alarm	N/A	N/A
Data	Sensor	N/A	N/A
Event	Sources	N/A	N/A
Event	Actions	N/A	N/A
Power	Supply	12v or PoE	12v or PoE
Power	Adapter input volts	AC 110-240v	AC 110-240v
Power	Adapter Output Voltage	12v DC	12v DC
Power	Consumption	6W	5W
Docarding	Edga Staraga	NI/A	N/A
Recording	Edge Storage	N/A	N/A
Temperature	Operating Range	0c - 40c	0c - 40c
remperature	Operating Nange	00 - 400	00 - 400
Physical	Dimensions	30 x 160 x 105 mm	30 x 160 x 106 mm
Physical	Weight	320 g	321 g
Physical	Housing	Black Aluminum	Black Aluminum
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General	Certifications	CE , FCC, RoHS	CE , FCC, RoHS
General	Software	N/A	N/A
General	Warranty	12 Months	12 Months
General	Remote	N/A	N/A
General	Reset	Web or external	Web or external
Control & Set Up	Set Up	Web Interface API Document	Web Interface API Document
	Control	API	API
	Upgrade	Firmware Upgrade	Firmware Upgrade
In the Box	Contents	Encoder , 12v Power Supply & Lead	Encoder , 12v Power Supply & Lead
	Power Cable/adapter	1 of either UK/US/EU/China/Aus	1 of either UK/US/EU/China/Aus
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