

ANT4000

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1920 x1080 P 60
Ultra Low Latency

HD 1080P60 H264 ENCODER OR DECODER

Ultra low latency H264 Video encoder with either hardware or software decoders. Simulcast , Multicast ,RTSP, MPEG-TS and low latency streaming -HDMI with HDCP

The ANT-4000E is a Full HD 1920 x1080 at 60 frames/second encoder designed to be used for various streaming and encoding applications. The ANT4000 is ideal when high quality video, or PC output, needs to be sent over an IP network at low data rates. Video resolutions from PAL and NTSC up to 1080P60 are supported as well as stereo audio.

In combination with the ANT-4000D Decoder unit the ANT-4000E can additionally stream video at extremely low latencies (delay) typically 30mS.

Software decoding is supported with VLC and other

RTSP streaming software decoders on various platforms.

Simulcast and multicasting is supported as well as RTSP MPEG-TS used in set top box decoders. The ANT-4000E provides a number of different video and audio interfaces including HDMI,DVI, VGA, Component and Composite video. Stereo audio is supported together with a general purpose virtual 2 way serial cable interface (RS232/485 with converter). Network transmission is via a 10/100 ethernet port. Power is supplied by the 240/110V AC to 12Volt DC converter supplied.



Video & Audio Interfaces

HDMI with HDCP
DVI-D* via HDMI
Component**
Composite RCA
VGA analogue D-Sub
Stereo audio jack and RCA

Network Interface

Ethernet RJ45 10/100

Streaming protocols

RTSP, MPEG -TS & Low Latency
Unicast Multicast

GOP, Slice, CBR & VBR- H264 modes

* use DVI to HDMI cable ** Use optional dongle supplied by antrica

FEATURES & SPECIFICATIONS

ANT-4000E & ANT-4000D



★ Video

State-of-the-art Compression Algorithm,
 H.264 Baseline level 4.2
 24 bit RGB + YUV (4:2:2)
 Low latency encode/decode typically 30ms
 (when used with ANT-4000D)
 Single stream + Stereo Audio
 Video and PC interfaces supported YPbPr &
 RGB
 HDMI v1.3 (DVI-D) VGA, Composite Video and
 Component video supported
 YPbPr Component plus CVBS composite
 video
 Compression and Decompression with multiple
 Resolution options
 : 1920x1080i60/P60, i50/P50
 : 1280x720P60,
 : 720x480i60/P60, i50/P50
 : WSXGA+ (1680 x1050),
 : SXGA (1280x1024) WXGA(1280x800)
 : XGA (1024x768) SVGA (800x600) ,
 : VGA (640x480) see table for more options
 Wide Range of Video Transmission Rates :
 100kbps ~ 12Mbps
 Various Transmission Modes : I frame GOP
 mode, Slice Mode (I frame in P frames)
 HDCP compliant v1.1

★ Audio

2x HDMI audio supported - Compressed or
 uncompressed
 Stereo Audio one way 44.1kHz / 48kHz , 16 bit
 ADC.
 RCA stereo jacks and mini stereo headphone
 jacks

★ Network

Static IP & Dynamic IP (DHCP) Support 10/100
 ethernet
 One to One Connection & One to Multiple
 Connection

Multi-Casting and Simulcast
 modes

Various Protocols supported :
 TCP/IP, UDP, Multicast, DHCP,
 HTTP, RTSP,
 RTSP , One to one proprietary
 low latency plus MPEG-TS
 (Video only)
 PLC modem connection

★ Serial Data

Two serial ports : RX and TX bi directional data
 3.3v TTL serial data (external level shift for
 RS232 required)
 Data pass-through mode : Serial data
 communication between Encoder - Decoder
 Virtual serial cable between encoder and
 decoder, Bi Directional.

★ USB

Engineering applications only

★ User Interface

Internet Explorer for system setup
 Firmware upgrade via PC command interface
 (simple)
 OSD system status if required

★ Operating conditions

0 to +40 ambient operating temp

★ Reliability Reliable embedded system

System recovery utilizing dual watch-dog
 functions
 System reset switch

30ms Latency

Applications for the ANT-4000

- ★ Point to point video links requiring low data rates and low latency.
- ★ PC desktop over IP in high resolution format at 60Hz refresh. KVM over IP
- ★ Entertainment systems requiring video streaming in multicast.
- ★ Medical scanners and cameras over IP for training purposes
- ★ HDMI to MDMI over IP streaming for remote HDMI monitors/ TVs.
- ★ HD and SD video encoding for recording purposes.
- ★ Unmanned vehicle camera streaming and control via RF or LAN
- ★ Security Video systems requiring high quality video over LAN WAN or RF
- ★ Point to Point radio links requiring video and audio transmission
- ★ Point to multipoint video streaming using VLC player or ANT-4000D decoder.



Product Overview

- HD and SD Server Encoders
- HD and SD Hardware Decoders
- Fixed and speed dome ~IP cameras
- Video management software
- Network Video recording
- End to end video over IP solutions

8 Hasting Close
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