

ANT-6000X Specification & User Manual

Version 1.5

October, 2012

This document is confidential and subject to change

ANT-6000X (ANT-6000E & ANT-6000D)





ANT-6000D Rear view♪



ANT-6000X - Connection





ANT-6000X (ANT-6000E/ANT-6000D) Main Highlights

- □ 1080p60 full HD encode/decode with H.264 Baseline Profile (Level 4.2)
 - · Supports both interlacing and progressive input streams
- Very low encode/decode latency
 - Latency of encode-decode in 1080p60 HD: 90 ms
- D PC2TV: Supports both DTV & VESA Standards
 - DTV: 1920x1080i60/p60, 1280x720p60, 720x480i60/p60
 - VESA:HD 1080 (1920x1080), WSXGA+(1680x1050), SXGA(1280x1024), WXGA(1280x800), XGA(1024x768), SVGA (800x600), VGA(640x480)
- □ High-end solution of the Ethernet full HD with 40Mbit/s of video encoding rate
- □ Full HD real-time streaming server over Internet (RTSP/RTP/UDP or MPEG-2 TS/UDP)
 - Maximum video encoding rate of RTSP/RTP/UDP streaming: 30 ~ 40Mbps
 - Maximum video encoding rate of MPEG-2 TS/UDP streaming: ~ 15Mbps
- □ HD-SDI & 3G-SDI Interface
- Supports either high quality 16-bit 48kHz audio or bandwidth efficient G.711 audio (64kbps or 128 kbps)
- Back channel audio
- □ Video out with video scaler
 - Support various video outputs on the ANT-6000D



Encoder (ANT-6000E)

Video Input

- HDMI(DVI): up to 1080p60, HDMI v1.3 compatible
- RGB (D-Sub): VESA formats up to 1280 x 1024 and 1920 x 1080p60
- HD-SDI & 3G-SDI: up to 1080i60/p60
- Audio Input
 - HDMI : HDMI compatible audio, Compressed or Uncompressed
 - HD-SDI & 3G-SDI: SDI compatible audio
 - Stereo Audio : Analog, 44.1kHz/48kHz 16-bit ADC
 - Stereo Phone Jack
- **D** Back Channel Audio Output
 - Stereo Audio : Analog, 44.1kHz/48kHz 16-bit DAC
 - Stereo Phone Jack
- **D** Encoding of Moving Pictures
 - H.264 (MPEG-4 Parts10: AVC)
 - Baseline Profile with Level 4.2 (up to 1920 x 1080p60)
- **D** Ethernet Output for Audio/Video
 - 10/100 BASE-Encoder, Cat.5 UTP cable
 - Power Of Ethernet (Max. 13W): Option
- **USB** for Engineering use
- □ Serial port for bi-directional remote operation



Decoder (ANT-6000D)

- □ Video Output
 - HDMI: up to 1080p60, HDMI v1.3 compatible
 - RGB (D-Sub): VESA formats up to 1280 x 1024 and 1920 x 1080p60
 - HD-SDI & 3G-SDI: up to 1080i60/p60
 - COMPONENT (YPbPr) (using gender): All HDTV formats up to 1080i60
- Audio Output
 - HDMI: HDMI compatible audio
 - Stereo Audio : Analog, 44.1kHz/48kHz 16-bit DAC
 - Stereo Phone Jack & Stereo RCA Jack
- Back Channel Audio Input
 - Stereo Audio : Analog, 44.1kHz/48kHz 16-bit ADC
 - Stereo Phone Jack
- Decoding of Moving Pictures
 - H.264 (MPEG-4 Parts10: AVC)
 - Baseline Profile with Level 4.2 (up to 1920 x 1080p60)
- Ethernet Input for Audio/Video
 - 10/100 BASE-Encoder, Cat.5 UTP cable (150m)
 - Power Over Ethernet (Max. 13W): Option
- **USB** for Engineering use.
- □ Serial port for bi-directional remote operation



Video Format Supported: VESA & DTV

Video Standard	Resolutions	HDMI	D-SUB	COMP	SDI
	640 x 480P 60/70/72/75/85	0	0	Х	Х
	800 x 600P 56/60/72/70/75/85	0	0	Х	Х
	1024 x 768P 60/70/72/75/85	0	0	Х	Х
	1152 x 864P 60/70/75/85	0	0	Х	Х
	1280 x 800P 60	0	0	Х	Х
	1280 x 960P 60/70/72/75/85	0	0	Х	Х
PC Format	1280 x 1024P 60/70/75/85	0	0	Х	Х
(VESA or Industrial)	1360 x 768P 60	0	Х	Х	Х
	1366 x 768P 60	0	Х	Х	Х
	1440 x 900P 60	0	Х	Х	Х
	1440 x 1050P 60	0	Х	Х	Х
	1600 x 1200P 60/R60	0	0	Х	Х
	1600 x 900P 60	0	Х	Х	Х
	1680 x 1050P 60/R60	0	х	Х	Х
	1920 x 1080P R60	0	0	Х	0
	720 x 480l60(NTSC)	0	0	0	0
	720 x 576I50(PAL)	0	0	0	0
	720 x 480P60	0	0	0	Х
	720 x 576P50	0	0	0	Х
	1280 x 720P50	0	0	0	0
TV Format	1280 x 720P60	0	0	0	0
(DTV or SMDTE)	1920 x 1080l50	0	0	0	0
	1920 x 1080l60	0	0	0	0
	1920 x 1080P24	0	0	Х	0
	1920 x 1080P25	0	Х	Х	0
	1920 x 1080P30	0	Х	Х	0
	1920 x 1080P50	0	0	0	0
	1920 x 1080P60	0	0	0	0



Common Specifications

Video Compression		H.264 Baseline Profile Level 4.2		
Video Resolutions (partial list)		480i/p, 720p, 1080i and 1080p (24fps/30fps/60fps)		
System Latency		Less than 90 millisecond Delay between Transmitter and Receiver		
Ethernet LAN		10/100 BASE-Encoder, car.5e UTP cable		
		Optional: PoE (Max. power 13W)		
USB		Upgrade SW firmware		
030		Optional: 3G/LTE wirless network		
Power Supply		6 - 12V/1.5A DC		
Dimensions (H x W x D, mm)		Board: 28 x 175 x 100, Enclosure: 30 x 184 x 101		
Weight (q)	Encoder	400g (with case), 140g (without case)		
weight (g)	Decoder	400g (with case), 140g (without case)		
Operating Temperature		Operating from $0^{\circ}C \sim 40^{\circ}C$		
Storage Temperature		Storage from $-20^{\circ}C \sim 60^{\circ}C$		



ANT-6000E/D specification

ANT-6000E spec

	1 x HDMI	HDMI-v1.3 compatible, Up to 24 bit RGB or YUV (4:2:2)
Digital Video IN Interface	1 x HD-SDI	Female BNC, 3G-SDI(2.970Gb/s), HD-SDI(1.485Gb/s), SD-SDI(270Mb/s)
Analog Video IN Interface	1 x D-Sub (15pin)	RGB Video with D-Sub, YPbPr with D-Sub to component gender
Digital Audio IN Interface	HDMI, HD-SDI	2 Ch Linear PCM, DTS 5.1 Ch., AC3 5.1 Ch.
Analog Audio IN Interface	Mini Stereo headphone Jack	48 kHz sampling with 16bits resolution
Back channel Audio OUT Interface	Mini Stereo headphone Jack	48 kHz sampling with 16bits resolution
ANT-6000D spec		
	1 x HDMI	HDMI-v1.3 compatible, Up to 24 bit RGB or YUV (4:2:2)
Digital Video OUT Interface	1 x HD-SDI	Female BNC, 3G-SDI(2.970Gb/s), HD-SDI(1.485Gb/s), SD-SDI(270Mb/s)
Analog Video OUT Interface	1 x D-Sub (15pin)	RGB Video with D-Sub, YPbPr with D-Sub to component gender
Digital Audio OUT Interface	HDMI, HD-SDI	2 Ch Linear PCM, DTS 5.1 Ch., AC3 5.1 Ch.
Analog Audio OUT Interface	Mini Stereo headphone Jack	48 kHz sampling with 16bits resolution
Back channel Audio IN Interface	Mini Stereo headphone Jack	48 kHz sampling with 16bits resolution
	SMPTE-425M-A/B	1080p (60/59.94/50/30/29.97/25/24/23.98)
	SMPTE-274M	1080i (60/59.94/50)
		1080p (60/59.94/50/30/29.97/25/24/23.98)
SDI signal Formats	SMPTE-296M	720p (60/59.94/50)
	SMPTE-259M-C	576i (50) / 487i (59.94)
	ITU-R BT.656	SD format
	ITU-R BT.709 and BT.1120-6	1125 line format



ANT-6000E/D Video Outputs

Output Mode (HDMI Colour space)	SDI		HDMI		PCP	VDhDr	Analog
	Video	Audio (1)	Video	Audio	KGB	TEDEI	Audio
HDMI (RGB)	Colour mismatch	ОК	ОК	ОК	ОК	No Out	ОК
HDMI (YPbPr)	ОК	ОК	ОК	ОК	Colour mismatch	OK	ОК
DSUB	No Out	No Out	ОК	ОК	ОК	No Out	ОК
Component	ОК	ОК	OK	OK	Colour mismatch	ОК	OK
HDSDI	ОК	ОК	ОК	OK	Colour mismatch	ОК	ОК



Boards of Encoder (ANT-6000E)/Decoder (ANT-6000D)

Encoder♪

Decoder♪





ANT-6000X Front LED & Rear Connector







Details subject to change and Firmware version

LED Description

ANT-6000E		ON	OFF	Blinking
Power	RED	Power on	Power off	-
Link	YEL	-	-	Link up status and data transmit
HD-SDI	GRN	Selected and input normal	Not Selected	Selected and No input
HDMI	GRN	Selected and input normal	Not Selected	Selected and No input
RGB	GRN	Selected and input normal	Not Selected	Selected and No input

ANT-6000D		ON	OFF	Blinking
Power	RED	Power on	Power off	-
Link	YEL	Link up status and data transmit	-	-
HD-SDI	GRN	Selected and output normal	Not Selected	Selected and No output
HDMI	GRN	Selected and output normal	Not Selected	Selected and No output
RGB	GRN	Selected and output normal	Not Selected	Selected and No output



LED operation at booting

ANT-6000E	Link LED	Video Port LED (HD-SDI, HDMI, RGB)	Time
Power LED ON	Blinking	3 x LED Blinking	4~5sec
Desting	Blinking	LED Off	40~45sec
Боонид	Blinking	Blinking	60~65sec
Normal operation	Fast Blinking	LED On	90~95sec

ANT-6000D	Link LED	Video Port LED (HD-SDI, HDMI, RGB)	Time
Power LED ON	Blinking	3 x LED Blinking	4~5sec
Booting	Blinking	LED Off	40~45sec
Normal operation	LED On	LED On	90~95sec



Factory Reset

- □ Factory reset will be started by pushing SEL button more than 20 seconds.
- □ All LEDs except power LED will blink fast, then you can release the button.
- □ It will reboot after 2~3 minutes.
- ☐ The IP address will be set to default value of 192.168.0.161 for ANT-6000E, and 192.168.0.162 for ANT-6000D.



Web Based Interface

- □ System Configuration
- □ Serial port Configuration
- **T** FW Images
- □ Streaming Control
- □ Save changes
- □ Reboot System



System Configuration



Changing IP address of the ANT-6000E or ANT-6000D

Default IP address of the ANT-6000E and ANT-6000D were set to 192.168.0.161 for ANT-6000E (Encoder) and 192.168.0.162 for ANT-6000D (Decoder). So, if this IP address is used by other IP devices on the same network, then you have to change the IP address to another one through the web interface of the Encoder and Decoder. You can connect to the embedded web page of the Encoder/Decoder with Encoder/Decoder's IP address via Internet Explorer. Please connect a laptop or PC to the Encoder (Decoder) with a CAT5e Ethernet cable directly. And enter the below IP address on the URL of Internet Explorer/Chrome.

Example of the Encoder) http://192.168.0.161

Example of the Decoder) http://192.168.0.162

- 1. Change the IP address using "Ethernet IP", "Ethernet NetMask" & "Gateway" to correct values, page 18 of this user guide.
- 2. Save the changed IP address, page 39.
- 3. Enter the new IP address of the ANT-6000E on the URL of Internet Explorer.
- 4. Same changes should be repeated to the ANT-6000D.
- And, if you did change the Encoder or Decoder IP address, you have to input the "Peer IP (lan)" in the "Syst em Configuration" page. New IP address of the Decoder must be entered in to the Encoder's "Peer IP(lan)" field, and the new IP address of Encoder must be entered on to the Decoder's "Peer IP(lan)" value.



System Configuration (Encoder)

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	System Configuration	Ethernet IP	192,168,0,161		
	S/W Images	Ethernet NetMask	255,255,255,0		Ethernet Configurations
	Streaming Control	Ethernet MAC	192,168,0,1		
		Streaming Mode	P2P 🔽 🗲		Streaming Mode : P2P/Multicast
		Group IP(multicast Peer IP	t) 227.2.2.9 192,168,0,162	The second secon	Multicast address when Multicast mode
Click 'Submi	it' to activate the	Submit Refresh			Peer address when P2P mode.
changes of	Configuration				Count value for Multicast Time To Live
Click 'Refree current statu	sh' to display ɹs♪			L	
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System Configuration (Encoder) – P2P mode

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Save Changes Ethernet Gateway	192,168,0,1	
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Submit Refresh		Enter Peer address
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ANT-6000X		
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System Configuration (Encoder) – Multicast mode

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S/W Images Ether	net NetMask 255,255,255,0	
Streaming Control Ether	net MAC 80:64:59:00:00:00	
Save Changes Ether	net Gateway 192,168,0,1	
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Multic	ast TTL 1	
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System Configuration (Decoder)

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System Configuration (Decoder) – P2P mode

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System Configuration (Decoder) – Multicast mode

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S/W Images	Ethernet NetMask	255,255,255,0		
Streaming Control	Ethernet MAC	80:64:59:80:00:01		
Save Changes	Ethernet Gateway	192,168,0,1		
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Serial Port Configuration

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	Baud rate 1200 2400 4800 9600 19200 38400 115200	Stop Bit 1 or 2	Character size CS5 CS6 CS7 CS8	Parity Disable Add Even	
ANT-6000X				6	• 100% •



Firmware Images Also referred to as FW or S/W



Details subject to change and Firmware version

FW Images (S/W)





FW Images – Download from Remote Server





FW upgrade – Upload from Local PC





Streaming Control



Details subject to change and Firmware version

Streaming Control (Encoder)



Streaming Control (Encoder) : Video Encoding & Streaming Control





Streaming Control (Encoder) : Audio Streaming Control





Bandwidth for Audio in ANT-6000X

- When input audio is linear PCM (no compression), the audio bitrate can be changed through th e selection of "Audio Streaming", "PCM compress" or "PCM 8KHz DownSample" fields.
- □ When audio input is PCM 48KHz, audio bitrate is about 1,536kbps.
 - Selection of Mono reduces it to half, 768kbps
- □ Selection of aLaw or uLaw reduces it to half again
 - Stereo: 768kbps, Mono: 384kbps
- □ 8Khz Downsample (G.711 mode) reduces it to one sixth again.
 - Stereo: 128kpbs, Mono: 64kbps
- □ Through such ways, audio bitrate can be reduced to minimum 64kbps.
- □ The audio quality is proportional to the bit rate.

Format	Bandwidth for Stereo	Bandwidth for Mono
Normal Linear PCM (16bit, 48kHz)	1,536kbps	768kbps
PCM compress (A/u-Law, 48kHz)	768kbps	384kbps
G.711 Compress (A/u-Law, 8kHz)	128kbps	64kbps



Streaming Control (Encoder) - RTP mode without RTSP Server



Streaming Control(Encoder) - RTP mode with RTSP Server



Streaming Control (Encoder) - MPEG2TS over UDP mode

(IPTV set-top compatible)

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E Reb	oot System	Local Machine Local S/W version	P2P Encoder nimbus:100,15-r575b13G-0		Notice		
		Video In Port Audio In Port	HDMI •		In this mode, AN and RTSP clien	NT-6000D Decoder t cannot receive	
		Video Signal Resolution(In/Enc) Color Space HDMI Audio Streaming	detected D1280x720P60 / D1280x720P60 RGB PCM 48000 Video-On / Audio-On / RTSP-On		stream from this and ANT-6000E eam audio in th	s ANT-6000X Encoc Encoder does not is mode.♪	ler str
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Streaming Control (Decoder)



ANT-6000X – Back channel audio connection





Save Changes

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System Configuration	System configurations are cha	anged	
S/W Images	If system configurations are you should save	changed and you want current settings to be contin	ued,
Reboot System	Save	Click this button to save the changes of configuration	
ANT-6000X			
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Reboot the system : Click the Reboot Button

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S/W Images Streaming Control	Reboot	Click this button to reboot the Transmitter			
Reboot System					
ANT-6000X					
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RTSP client : in a VLC media player







RTSP client : in a VLC media player





TS2UDP client : in a VLC media player

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work Stream>	http://www.example.com/stream.avi	\uparrow
	rtp://@:1234 mms://mms.examples.com/stream.asx rtsp://server.example.org:8080/test.sdp	
	http://www.yourtube.com/watch?v=gg64x	2. Enter legacy udp stream
		When Encoder is in P2P mode
		udp://@:1234/
		When Encoder is in multicast mode
		udp://@227.2.2.7:1234/♪
		3. Click play button
	☐ Show more options	
		Play Cancel



TS2UDP client : in a VLC media player







8 Hasting Close

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