



Airborne
Technologies

MPEG-4(H.264) VIDEO ENCODER/DECODER

Graphics solutions

Ultra low-delay encoding

In applications where there is a closed feedback loop, such as Unmanned vehicles command and control, latency is the most crucial aspect of the system

The IPR system, is a multi standard ultra low delay encoder compliant with the H.264 baseline profile supporting multiple streaming protocols including RTP and RTSP enabling the user to stream virtually to any endpoint.

A web-server based application enables to control the bit-rate and video quality, making it a perfect selection for bandlimited channels.

Features:

- H.264 High Profile Level 4.0
- Unicast/multicast RTP ; unicast RTSP IP streaming output
- Selectable (fix or variable) bitrate
- Encoding/Decoding time $\leq 250\text{ms}$ @ 4Mb

Main sub-assemblies:

- Ultra low delay lightweight and compact onboard box
- Optional 19" 1U decoding ground segment



Reliable personalized solutions

All critical technologies' parts are developed produced and integrated by IPR providing an outmost degree of customization: systems can be tailored to end users' specific layout and weight requirements

IPR systems have no ITAR restrictions



Technical details

Video input format	Digital SDI / HD-SDI / HDMI
Digital video input	SDI / HD-SDI - 75 Ω / BNC socket. Optional HDMI Socket
Video encoding	ISO/IEC 14496-10 (H.264/AVC) Main Profile Level 3.0 - High Profile Level 4.0
Bitrate	1,2,3,4,5,6,7,8,9 Mb or unconstrained
Supported resolutions SD - HDMI	NTSC SD 60i; NTSC SD 60i (24 fps); PAL SD 50i; NTSC SD 60p; PAL SD 50p; HD1080 23.98p; HD1080 24p; HD1080 25p; HD1080 29.97p; HD1080 30p; HD1080 50i; HD1080 59.94i; HD1080 60i; HD1080 50p; HD1080 59.94p; HD1080 60p; HD720 50p; HD720 59.94p; HD720 60p
Minimum latency	≤250ms @ 4Mb encoding/decoding
Stream type	Transport stream
IP Streaming output	RTP: Unicast/multicast; RTSP: unicast
Web interface / HTTP control	
Dimension (L x W x H)	200 x 120 x 70 mm
Weight	~ 0,8 Kg

IPR Comprehensive Offer includes:



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