

# H.264/AVC or MPEG-2 Video Contribution Encoder for PCIe

DekTec DTA-2180



## FEATURES

- Real-time H.264/AVC or MPEG-2 video encoder for HD and SD formats
- Audio/video input taken from HD-SDI or from HDMI (e.g. for H.264 encoding of the output of a graphics card)
- Broad audio support: Dolby Digital (AC-3), AAC-LC, HE-AAC, MPEG-1 Layer II and "pass-through" of already encoded audio
- Up to two 5.1 surround services (AC-3 or AAC), or up to eight stereo channels
- Includes a transport-stream multiplexer with low-latency ASI output and data also available for reading by PC applications
- Supported on Windows and Linux by the free DekTec SDK (DTAPI)
- Windows application available for controlling encoding parameters (DtEnc)

## APPLICATIONS

- General purpose H.264 program encoder
- H.264 encoding of the contents of a PC desktop, running e.g. a slide show
- High-quality encoding of Xpect Mosaic multiviewer output for remote viewing

- SDI or HDMI in, low-latency ASI out
- Proven Magnum encoding technology
- Audio: AC3 or AAC (up to 2x5.1), MP1 LII

## KEY ATTRIBUTES

Parameter	Value
Video Encoding	H.264: HP, MP, CBP MPEG-2 Video: HP, MP, SP
#Video Channels	1 (SDI or HDMI input)
Video Encoding	AC-3, AAC-LC, HE-AAC, MPEG-1 Layer II, pass-through
#Audio Channels	Up to 8 x stereo or 2 x 5.1
SDI Input	75-Ω BNC; SD/HD-SDI
HDMI Input	HDMI 1.4a
Power Connector	6-pin PCIe power
Encoding Latency	150 to 650ms
Sample Format	8-bit 4:2:0
Ancillary Data	Closed captions, AFD, VITC
PCI Express	PCIe x 1 +EXT25W; low profile
OS	XP, 2k3, Vista, 2k8, 7, 8, 10 Linux ≥2.6.18, 3.x, 4.x

## OPTIONS

Option	Description
-AACn	n points for AAC audio encoding
-AGn	Any number of AAC or MP1-LII audio services, and n points for AC-3 encoding
-DDn	n points for AC-3 audio encoding
-MPAn	n points for MP1 LII audio encoding

\* A stereo service requires 2 points, 5.1 surround requires 5 points

## ORDERING INFORMATION (examples)

Type	Description
DTA-2180	H.264 encoder without audio
DTA-2180-AAC2	DTA-2180 with 1 HE-AAC or AAC-LC stereo audio service
DTA-2180-AG5	DTA-2180 with any number of AAC, MP1-LII audio channels, plus 1 AC-3 surround service