

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

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

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

KEY ATTRIBUTES

Parameter	Value
Video encoding	H.264: HP, MP, CBP MPEG-2 Video: HP, MP, SP
#Video channels	1 (SDI or HDMI input)
Audio encoding	AC-3, AAC-LC, HE-AAC, MPEG-1 Layer II, pass-through
#Audio channels	Up to 8x stereo or 2x 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 x1 +EXT25W; low profile
OS	XP, 2k3, Vista, 2k8, 7, 8, 10 Linux ≥2.6.18, 3.x, 4.x

OPTIONS

Option	Description
-AAC _n	<i>n</i> points for AAC audio encoding
-AG _n	Any number of AAC or MP1-LII audio services, and <i>n</i> points for AC-3 encoding
-DD _n	<i>n</i> points for AC-3 audio encoding
-MPA _n	<i>n</i> 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