VPX3U-E8860-H264

TWO HD-SDI OR ONE 3G-SDI TO DEDICATED H.264 COMPRESSION, 6 VIDEO OUTPUTS

OVERVIEW
WOLF’s VPX3U-E8860-H264 multi-video graphics module integrates dedicated H.264 hardware encoding and an E8860 GPU in a standard 3U VPX form factor.

WOLF’s H.264 video encoding engine offers two simultaneous SDI inputs up to HD-SDI resolution (1080p30 / SMPTE-292M) or a single input at 3G-SDI (1080p60 / SMPTE-424M).

Up to two H.264 encoded outputs are streamed over Gigabit Ethernet in MPEG2-TS format encoded in UDP packets. You can stream both inputs simultaneously, or stream one input with two independent encoder settings. Additionally, the input can be mirrored as an unmodified SDI output.

The E8860 module has 2GB onboard GDDR5 memory, with 768 GFLOPs of parallel processing power, making it suited for GPGPU applications.

Hardware configuration options include rugged air-cooled or conduction-cooled, and support for VPX-REDI and OpenVPX.

KEY FEATURES
- Two HD-SDI or One 3G-SDI video inputs
- Dedicated H.264 hardware encoding
- STANAG-4609 KLV Metadata injection
- AMD Radion™ E8860 GPU with 6 video outputs
- Operating power as low as 15 Watts

ADDITIONAL FEATURES
- Output compressed H.264 over Gigabit Ethernet
- Up to Six Digital video outputs (DisplayPort, HDMI, DVI, TMDS)
- 1 Analog video output (RGBHV)
- 2GB GDDR5 memory, 128-bit interface width
- Max memory bandwidth: 64 GB/s
- Advanced GPGPU parallel processing capabilities: OpenCL™ 1.2, DirectCompute 11
- Advanced tunable power management 15 - 45 Watts

SPECIFICATIONS
- High level of ruggedization
  - MIL-STD-810, IPC 6012 Class-3
  - -40° to +85°C operating temperature
  - 40g, 11ms shock and 0.2g²/Hz@ 5 - 2000Hz vibration
  - Conduction-cooled or Rugged air-cooled
- Windows 7 and Linux drivers
- VxWorks, Integrity, LynxOS, and other RTOS drivers available
- VPX 3U form factor: 160×100 mm
- Supported VPX configurations:
  - VPX-REDI (ANSI/VITA 48.x)
  - OpenVPX (ANSI/VITA 65)