



Enabling NEW Solutions

Modular Rackmount Encoding Solutions

HEVC / AVC / MPEG 2 - 4:2:2/4:2:0 10-bit/8-bit
Hardware Designed for Premium Quality Video Applications

Adtec's hardware-based, power-efficient HEVC encoder has been designed specifically for premium quality video applications. The space-saving, power-saving, and bandwidth-saving AFN-1000 encode solution is a standard 1RU and can be purchased with a single channel of 4K(UHD) HEVC encoding and can be upgraded to support up to six 4K(UHD) systems or twenty-four HD or SD channels in one chassis.

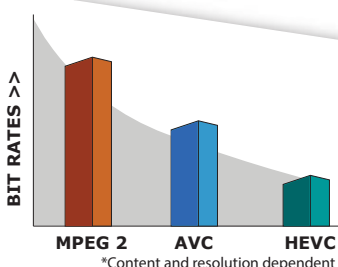
This solution features a wide range of capabilities from 4K(UHD) HEVC 4:2:2 10-bit to AVC 4:2:2 10-bit to MPEG 2 4:2:0 8-bit encoding. With value added features including low latency and a built-in multiplexer this offering will enable solutions for a wide range of markets.

Feature Highlights

- High-Efficiency Encoding
- On-Board Multiplexer
- Multi-Codec Solution
- Low-Power Footprint
- UHD (4K) or Quad HD from a Single Carrier
- Multi-Channel Solution (Up to 24 Channels)
- HDR Processing
- Room for Expansion & Redundancy



HEVC / H.265 delivers significant bit rate reductions compared to existing compression technologies - up to a 50% bit rate improvement over AVC / H.264.



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AFN-1000 Series Technical Guide

Video/Audio Highlights

- One 4K(UHD) or Four HD/SD Encode Channels per Carrier
 - HEVC (H.265) 4:2:2 / 4:2:0 10-bit / 8-bit
 - AVC (H.264) 4:2:2 / 4:2:0 10-bit / 8-bit
 - MPEG 2 4:2:0 8-bit
 - Low Latency Modes
 - HDR Processing (HDR10, HLG) *Roadmap
 - Multistream channel processing *Roadmap (1-to-N / N-to-N processing)
 - 3G-SDI Inputs
 - SMPTE 292M with embedded audio per SMPTE 299M
 - Four 1.0/2.3 DIN connectors
 - Supports Sixteen Pairs of Audio Encoding per Carrier
 - Allocation of audio to video channels dependent on configuration
 - Audio Codecs
 - MP1L2 / MP2L2
 - DD AC3
 - AAC-LC / AAC-HEv1 / AAC-HEv2
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Multiplexer Highlights

- Asynchronous Serial Interface Outputs
 - Four mirrored or independent - BNC (75 Ohm)
 - ISO13818-1 MPEG 2 Transport Stream per EN 50083-9
 - GigE IP Outputs
 - Two RJ45 10/100/1000 GigE (Primary - IP management / Secondary - TSOIP)
 - UDP, RTP (RFC 3550) encapsulated routes (188 byte DVB packet size, 7 per IP packet)
 - SRT Ready as Sender or Receiver
 - SPTS or MPTS Bouquet Management
 - Re-mux Services with afinitiLink Feature (Services can be multiplexed into an output from a network input)
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AFN-1000 Frame Highlights

- Operating Temperature
 - 0°C to 50°C / 32°F to 122°F Ambient
 - Power
 - Redundant internal power supplies (100-240 VAC 50/60)
 - Startup Consumption (400mA @ 120 V)
 - Physical
 - Measurements: 1.75"H X 18.97"W X 18.51"D
 - Frame Weight: 8.50 lbs. Carrier Range: 8.75 to 25 oz. per
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Accessories

- 3G-SDI DIN1.0/2.3 to BNC-F Video Adapter Cable

*** Feature keys required to enable functionality. Speak with your Adtec sales representative to build your custom solution.**



On-line Demo:
afiniti.adtecdemo.tv
un:adtec
pw:none