Vers Ative Pro

Patent Pending

VersAtive®Pro Professional Quality Transcoders:

Applications:

- Cost-effective, multichannel transcoding
- Simultaneous HD & SD transcoding for local/regional channel conversion requirements
- Converting providers' content (MPEG-2>4, 4>2) to accommodate varying broadcast inputs & set-top architectures
- Bit rate changing to reduce IPTV stream bandwidth and accommodate downstream end devices
- Creating multiple MBR output rates from multiple inputs

Key Features:

License-free = Hassle-free

Transcode what you want, when you want

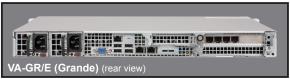
Exceptionally Priced

Why pay more?

Professional Video Quality

High quality video at minimal bit rates









VA-MD/E (Mondo) (rear view)

Product Line Overview:

Input

- ▶ Video: MPEG-2 or H.264, up to 1080p
- Audio: AAC-LC, AC-3 2.0/5.1, MPEG-1 L2/3, HE-AAC v1, E-AC3

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Output

- Video: MPEG-2 or H.264, up to 1080p
- Audio: AAC-LC, MPEG-1 L2/3, AC-3 2.0/5.1, HE-AAC v1, E-AC3
- Protocol: UDP

Other Features

- Video: Up/downscale, cropping, frame rate conversion, deinterlacing
- Audio: Sample rate conversion, configurable audio delay
- Multiple publishing destinations per output stream
- Multiple output port streaming
- Output port mirroring
- CBR/VBR output
- Configurable GOP (H.264)
- Bit rate & session monitoring
- Management: HTTP GUI
- Closed Captioning (EIA-608 & EIA-708), Teletext & SCTE 35 pass through
- Low latency
- Private PID pass through
- PSI monitoring
- SNMP-based monitoring, ie. SNMP traps
- DVB[®] subtitle overlay
- VLAN segmentation
- NTP time management
- User access management
- HD/SD simulcast output from one single input program (MBR output from single input program)



VersAtive®Pro Professional Quality Transcoders:

VersAtive®Pro Transcoder Specifications

SYSTEM PLATFORM SPECIFICATIONS						
	VA-GR/E	VA-MD/E				
ECHANICAL & ENVIRONMENTAL						
FORM FACTOR	1RU (19" Rack Mount)	2RU (19" Rack Mount)				
DIMENSIONS	1.75"H x 19.0"W x 16.9"D (4.45H x 48.26W x 42.9D cm)	3.5"H x 19.0"W x 28.5"D (8.89H x 48.26W x 72.4D cm)				
WEIGHT	25.4 lbs (11.5 kg)	83.8 lbs (38.0 kg)				
OPERATING TEMPERATURE/HUMIDITY	+10°C to +35°C (+50°F to +95°F) / 8-90% (Non-condensing)					
CONTROL & MANAGEMENT						
FRONT PANEL BUTTONS	Power ON/OFF	Power ON/OFF (x4), ID (x4)				
FRONT PANEL LEDs	Power, Hard Drive Activity, Network Activity, Info	Power (x4), Hard Drive Activity (x4), Network Activity (x4), Info (x4)				
DEVICE MANAGEMENT	Local/Remote Access via Integrated Web Server, HTTP Web GUI					
DEVICE MANAGEMENT INTERFACE	ETH RJ45, Static IP	ETH RJ45, Static IP (x4)				
POWER SUPPLY						
POWERING	Redundant AC Power Supply 2x 400W, 100-240 VAC, 50-60 Hz	Redundant AC Power Supply				
		2x 1600W, 100-140 / 180-240 VAC, 50-60 Hz				
	2x IEC (C14 Inlet) 2x IEC (C14 Inlet)					
PHYSICAL INTERFACES						
LAN (IP) INTERFACES	6x Gbps ETH RJ45 for IP Traffic & Management, 1x IPMI RJ45	6x Gbps ETH RJ45 (x4), 1x IPMI RJ45 (x4)				
VIDEO MONITOR INTERFACE	VGA, DE-15 Female	VGA, DE-15 Female (x4)				
USB INTERFACES	4x USB 2.0, Type A (on rear)	2x USB 3.0, Type A (on rear) (x4)				
IP TRANSPORT I/O CHARACTERISTICS						
PHYSICAL PORT ADDRESS	Static IP Address					
TRANSPORT LAYER PROTOCOL (IN)	UDP					
TRANSPORT LAYER PROTOCOL (OUT)	UDP					
TRANSPORT STREAM SUPPORT (IN)	MPTS, SPTS					
TRANSPORT STREAM SUPPORT (OUT)	SPTS					
ADDRESSING	Multicast & Unicast					

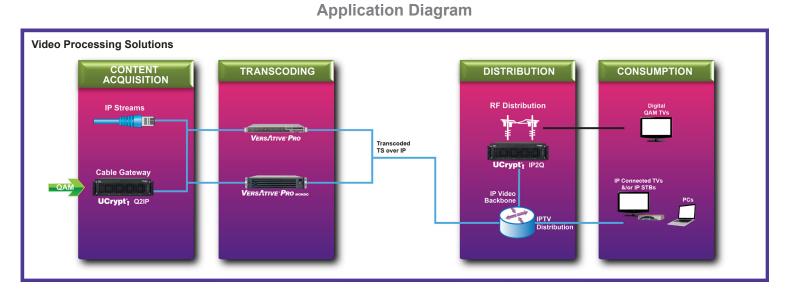
TRANSCODING SPECIFICATIONS						
	VA-GR/E	VA-MD/E				
VIDEO	Up/Downscaling, Cropping, Frame Rate Conversion, Deinterlacing					
AUDIO	Sample Rate Conversion, Audio Pass Through					
VIDEO OUTPUT						
ENCODING FORMAT	MPEG-2 MP@ML / MP@HL and H.264 High Profile @L4.0					
CHROMA FORMAT	4:2:0					
RESOLUTIONS	128 x 96 to 1920 x 1080					
ENCODING BIT RATE	80-18200 kbps					
FRAME RATES	1 / 4 / 5 / 6 / 8 / 10 / 12 / 15 / 23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60 fps					
AUDIO OUTPUT	AUDIO OUTPUT					
ENCODING STANDARD	MPEG-1-L2/3, AAC-LC, AC-3 2.0/5.1, HE-AAC v1, E-AC3					
SAMPLE RATE	32 / 44.1 / 48 kHz					
	192, 256, 384 kbps (MPEG-1 L2)					
AUDIO BIT RATE	32-256 kbps (MPEG-1 L3)					
AUDIO BIT RATE	24-448 kbps (AC-3 2.0/5.1, AAC-LC, HE-AAC v1)					
	16-448 kbps (E-AC3)					
AUDIO DELAY	+/- 1000mS					

Ordering Information

Part Number	Description
VA-GR/E	VersAtivePro Grande Enhanced, Redundant AC Power Supply
VA-MD/E	VersAtivePro Mondo Enhanced, Redundant AC Power Supply
VA-GR/E-DE	VersAtivePro Grande Enhanced, Dolby Enabler
VA-MD/E-DE	VersAtivePro Mondo Enhanced, Dolby Enabler

VersAtive[®]Pro

VersAtive® Pro Professional Quality Transcoders:



Appendix: VersAtive® Pro Processing Capacity

PROCESSING CAPACITY		1080i 29.97 fps	1080i 29.97 fps > 480i 29.97 fps	480i 29.97 fps		
VA-MD/E (Mondo)	H.264 TO MPEG-2	40	76	148		
	H.264 TO H.264	48	92	200		
	MPEG-2 TO MPEG-2	48	96	160		
	MPEG-2 TO H.264	52	98	204		
VA-GR/E (Grande)	H.264 TO MPEG-2	10	19	37		
	H.264 TO H.264	12	23	50		
	MPEG-2 TO MPEG-2	12	24	40		
	MPEG-2 TO H.264	13	26	51		
NOTES: MPEG-2 1080i = 18 Mbps MPEG-2 480i/576i = 3.5 Mbps H.264 1080i = 5 Mbps H.264 480i/576i = 2.2 Mbps The processing capacity numbers provided are for guideline purposes only. The actual processing capacity of the unit will depend on content/system configuration.						

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