








AMP Embedded Video Product Selector Guide

Ultra Low Latency Frame Grabbers with MPEG-4/MPEG-2/H.264 Compression

| | Form Factor | Input Type | Input Resolution | Type of Video | Expansion Options | Extra Features | Operating Temp. |
|--|---------------|-----------------------|---|---|---|----------------------------|-------------------------------|
|  H264-HD2000 | PCI104 | HDMI, RGB, VGA, YPrPb | HDMI up to 1080p, VGA up to 1600x1200 (UXGA) | High Definition (HD) Analog and Digital | Plug-in for SDI Input/Output; Plug-in for HDMI Input/Output | Very low latency | 0 to +60°C and -40°C to +85°C |
|  H264-ULL-SD4 | PCI104 | PAL, NTSC, RS170 | PAL 720x576 NTSC 720x480 | Standard Definition | | 40ms Ultra Low Latency | 0 to +60°C and -40°C to +85°C |
|  H264-ULL-cPCI | 3U CompactPCI | HDMI, RGB, VGA, YPrPb | HDMI up to 1080p, VGA up to 1600x1200 (UXGA) | High Definition (HD) Analog and Digital | Optional miniPCI connector for WiFi, LAN, GPS, Video Grabber, etc | 40ms Ultra Low Latency | 0 to +60°C and -40°C to +85°C |
|  H264-ULL-PMC | PMC | RGB, VGA, YPrPb | Analog HD up to 1080p, VGA up to 1600x1200 (UXGA) | High Definition (HD) Analog | | 40ms Ultra Low Latency | 0 to +60°C and -40°C to +85°C |
|  H264-cPCI8 | 3U CompactPCI | PAL, NTSC, RS170 | 4CIF | Standard Definition | 1 PAL, NTSC, RS170 Playback | 8 concurrent channels H264 | 0 to +60°C and -40°C to +85°C |

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Frame Grabbers with MPEG-4/MPEG-2/H.264 Compression

| | Form Factor | Video Codec | Input Channels | Compression/Resolution | Extra Features | Operating Temp. | Power Cons. |
|---|-----------------|-------------------|----------------|---|---|-------------------------------|-------------|
|  MPEG4000XLP | PC/104-Plus | MPEG-4 | 4 (from 8) | x1 Full frame rate @ D1 x4 ¼ frame rate @ D1 x4 Full frame rate @ CIF | Text overlay | 0 to +60°C and -40°C to +85°C | 6.25W |
|  MPEG4000WA | PC/104-Plus | MPEG-2 I-4, MJPEG | 4 (from 8) | x1 Full frame rate @ D1 x4 ¼ frame rate @ D1 x4 Full frame rate @ CIF | Graphics overlay 128 bit HMAC digital watermarking | 0 to +60°C and -40°C to +85°C | 6W |
|  MPEG4000ULP | PC/104-Plus | MPEG-4 | 4 (from 8) | x1 Full frame rate @ D1 x4 ¼ frame rate @ D1 x4 Full frame rate @ CIF | Text overlay | 0 to +60°C and -40°C to +85°C | 4.25W |
|  MPEG4000-D4 | PC/104-Plus | MPEG-4 / M-JPEG | 4 | x4 Full frame rate @ 4CIF (up to 704x576) | Text OSD on recording and graphics on analog preview | 0 to +60°C and -40°C to +85°C | 3.5W |
|  VCODEC-H264-D4 | PC/104-Plus | H.264 / M-JPEG | 4 | x4 Full frame rate @ 4CIF (up to 704x576) | Text OSD on recording and graphics on analog preview | 0 to +60°C and -40°C to +85°C | 2.9W |
|  microMPEG4 | mini PCI | MPEG-4 | 4 | x1 Full frame rate @ D1 x4 ¼ frame rate @ D1 x4 Full frame rate @ CIF | Text overlay Small footprint | 0 to +60°C and -40°C to +85°C | 3.1W |
|  microMPEG4-D4 | mini PCI | MPEG-4 / M-JPEG | 4 | x4 Full frame rate @ 4CIF (up to 704x576) | Text OSD on recording and graphics on analog preview | 0 to +60°C and -40°C to +85°C | 3.2W |
|  microH264-D4 | mini PCI | H.264 / M-JPEG | 4 | x4 Full frame rate @ 4CIF (up to 704x576) | Text OSD on recording and graphics on analog preview | 0 to +60°C and -40°C to +85°C | 2.6W |
|  MPEG4cPCI | CompactPCI (3U) | MPEG-4 | 4 (from 10) | x4 Full frame rate @ D1 | Text overlay (on one channel) | 0 to +60°C and -40°C to +85°C | 9W |

Reference information: D1: 720x480 (NTSC) or 720x576 (PAL), 4CIF: 704x480 (NTSC) or 704x576 (PAL), CIF: 352x240 (NTSC) or 352x288 (PAL). Full frame rate: 29.97fps (NTSC) or 25fps (PAL)

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Frame Grabbers with Overlay

| | Form Factor | Overlay Features | Input Options | Frame Grabber Performance | Extra Features | Operating Temp. | Power Cons. |
|--|-------------|--|----------------------------|--|--|-------------------------------|-------------|
|  VAC2000 | PC/104-Plus | High speed alpha-blended graphics overlay & video mixing | 2 analog NTSC/PAL (from 4) | x2 Full frame rate @ D1 (not accessible from PCibus - for overlay function only) | Integrated 2D accelerator. VGA, TV & flat panel output | 0 to +60°C and -40°C to +85°C | 5.75W |
|  AVC4000 | PC/104-Plus | High speed alpha-blended overlay | 4 (from 8) analog NTSC/PAL | x1 Full frame rate @ D1 x4 Full frame rate @ CIF | Output to host VGA screen and composite / s-video | 0 to +60°C and -40°C to +85°C | 3.6W |
|  QuadGrabber | PC/104-Plus | Overlay added on host platform | 4 analog NTSC/PAL | x4 Full frame rate @ D1 | Output to host VGA screen and includes audio input | 0 to +60°C and -40°C to +85°C | 0.7W |
|  VMIX104 | PC/104 | Alpha-blended text/graphics for the output channel | 4 analog NTSC/PAL (from 8) | Up to full frame rate @ D1 (not accessible from PC/104bus - for overlay function only) | Output as composite / S-video | 0 to +60°C and -40°C to +85°C | 2W |
|  AVC2000-V | PC/104-Plus | Overlay added on host platform | 1 analog NTSC/PAL (from 3) | x1 Full frame rate @ D1 | Output to host VGA screen and includes audio input. | 0 to +60°C and -40°C to +85°C | 2W |
|  FireSpeed2000 | PC/104-Plus | Overlay added via host platform | 3 FireWire | Limited by camera specification | Standard FireWire400 connectors | 0 to +60°C and -40°C to +85°C | 3W |
|  microGrabber | mini PCI | Overlay added on host platform | 4 analog NTSC/PAL | x4 Full frame rate @ D1 | Output to host VGA screen and includes audio input | 0 to +60°C and -40°C to +85°C | 0.6W |

Video Scan Converters / Graphics Controllers

| | Form Factor | Input Type | Input Resolution | Output Options | Extra Features | Operating Temp. | Power Cons. |
|--|----------------------------|------------|--------------------------|---|---|-------------------------------|-------------|
|  VTV2000 | PC/104-Plus or stand-alone | Analog VGA | 640 x 400 to 2048 x 1536 | Composite / s-video NTSC / PAL | VGA pass-through connections | 0 to +60°C and -40°C to +85°C | 4W |
|  VGASTANAG | PCI-104 (or stand alone) | Analog RGB | 800 x 600 to 1280 x 1024 | STANAG 3350 Class A, B, C Sync-on-green | VGA pass thru' True stand alone operation | 0 to +60°C and -40°C to +85°C | 4W |

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