

OMNIInet MPEG-2 Video Modules



MPEG-2 is a common compression standard used for digital video broadcast in NTSC and PAL video formats. MPEG-2 addresses many of the problems inherent in previous video compression schemes (JPEG, M-JPEG, MPEG-1, and Wavelet) such as resolution, scalability and the handling of interlaced video signals.

The OMNIInet **ADV264AV** and **DAV264AV** modules combine MPEG-2 video and 16-bit audio on the same module. These modules are available by special order with S-VHS connectors rather than the standard BNC connectors.

- ADV264V** 2 Channel NTSC/PAL MPEG-2 Encoder (BNC)
- DAV264V** 2 Channel NTSC/PAL MPEG-2 Decoder (BNC)
- ADV264AV** 2 Channel NTSC/PAL MPEG-2 Audio/Visual Encoder (BNC)
- DAV264AV** 2 Channel NTSC/PAL MPEG-2 Audio/Visual Decoder (BNC)
- ADV264SA** 2 Channel NTSC/PAL MPEG-2 Encoder (S-VHS)
- DAV264SA** 2 Channel NTSC/PAL MPEG-2 Decoder (S-VHS)

System	
Baseband video I/Os per fiber	6Mb/s = 16 video I/O 3Mb/s = 32 video I/O
Latency	6Mb/s = 300ms end-to-end 3Mb/s = 360ms end-to-end
Channels	2 input channels(ADV264, ADV264AV) 2 output channels (DAV264, DAV264AV)
Connectors	2 BNC (all modules) 2 S-VHS (optional on ADV264AV, DAV264AV)

ADV264V
DAV264V
ADV264AV
DAV264AV
ADV264SA
DAV264SA

Video Specifications	
Signal to noise ratio	60dB
Luminance non-linearity	0.8 degrees
Chrominance luminance delay inequality	1ns
Differential gain	0.8%
Motion artifacts	MPEG-2 compression artifacts (minor)
Sampling quantization rate	10 bits @ 54Mhz
Video input level	1V
Adjustable input level	Fixed
Adjustable input impedance	75 ohms
Input/Output voltage (difference)	1%
Intermodulation	0.2%