AVDS
Audio Video Distribution System

Innovative Advantage

■ AVDS Node—Over 20 IO cards support all types of video, audio and logic signals.	▬ Fiberoptic Network—Fault tolerant ring routes signals around aircraft with no latencies or artifacts	● Input|Output—Connect Blu-ray, iPad, Camera's, SatTV to headphones, amplifiers and HD monitors

AVDS delivers virtually latency free 4K |1080 video , audio and GB Ethernet over fiber network

Perfect Video: AVDS routes signals over fiber at very high bandwidth meaning you get the very best possible quality. No losses, no artifacts - HiDef end to end.

No latencies means computer presentations, AVOD, and video games and are welcome on the network.

Up/down conversion, frame rate conversion, NTSC and PAL signals supported.

AVDS is the only system that uses a distributed network topology without heavy compression techniques that compromise signal quality or introduce latency (lip sync issues).

Crystal Clear Audio: Over 500 channels of stereo and multichannel digital audio distributed around **AVDS** network without compromise.

It's easy to see why a distributed network topology is superior to a point-to-point star topology. **AVDS** offers less cable, less weight, less mess.

Gigabit Ethernet: AVDS backbone has Gigabit Ethernet available to any other aircraft system - office, telephony, AVOD, etc.

Dual Fiber Optic Ring provides fault tolerant architecture. Signal paths continuously monitored and re-routed if fault detected.

Light Weight Fiber reduces aircraft wiring and can be run over 1000 meters between **AVDS** nodes.

Fiber backbone is not susceptible to EMI noise induction or ground loops.

Works with any CMS—simple control of **AVDS** network via serial or Ethernet ports. Public Interface Document.

Connect a wireless access point and stream video to any smart phone or tablet.
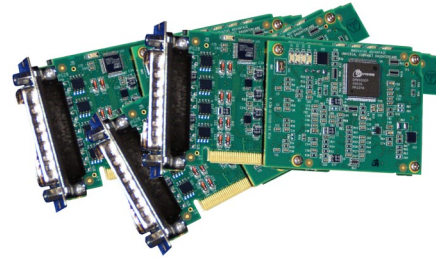
KEY BENEFITS

- 4Kp60 support over single coax

- Latency Free Video Distribution

- Built-In Video Up-Scaling and Down-Scaling

- Virtually Unlimited Scalability

- Managed Ethernet Switch

- Easily Integrates with CMS/IFE Systems

- Mix analog and digital audio inputs and outputs

AVDS Node and IO Cards

AVDS Node w/ 8 IO Cards

IO Cards for AVDS node

CAPACITIES	
Active Video Channels	22
Active Audio Channels	500+

EXTERNAL PORTS	
Gigabit Ethernet	3
RS232/485	1

DIMENSIONS	
Height	2.5 in. (6.35 cm)
Width	9 in. (22.86 cm)
Depth	5 in. (12.70 cm)
Weight	4.25 lbs (nominal)
Power	2A @ 28VDC (nominal)

SIGNALS SUPPORTED	
HD-SDI	4K60 (SMPTE RDD35), 1080p60, 1080i30, 720p60, 576i25, 480i30, SMPTE 424M, SMPTE 292M, 259M-C
HDMI™ / DVI-D	HDMI™ version 1.3 w/HDCP* 1080i25/30, 720p50/60, 576i25, 480i30
Component	1080i25/30, 720p50/60, 576i25, 576p50, 480p60, 480i30
Composite	NTSC/PAL (480i30, 576i25)
PC Graphics	VGA, SVGA, XGA, SXGA 640x480, 800x600, 1024x768, 1280x1024
Digital Audio	Coaxial, 2-ch LPCM, Dolby Digital™, DTS™ Pass-through
Line Level Stereo Inputs	+/- 3.6V, 20Hz to 20kHz (-3dB)
Headphone Stereo Outputs	+/- 3.6V, 20Hz to 20kHz (-3dB)