GRAVES-TECH
DESIGN | ENGINEER | CODE

Advanced Video Interface Adapter (AVIA)

PRODUCT INFO

1. Receive or transmit VESA DVI signals
2. Receive or transmit HOTLink serial data
3. Front panel I/O for HOTLink 1, 2, and Fiber Channel
4. Fully programmable FPGA for unique interface requirements
5. Stand-alone benchtop capable
6. Supports AH-64D DVI-I, DVI-II, and DVI-III (D-MTADs and Displays)
7. Supports F/A-18 MFCDU
8. Supports AIM-9x seeker interfaces

The AVIA is a versatile digital video adapter. It allows for the real-time conversion of avionics standard digital video formats transmitted over HOTLink physicals. The video can be converted to standard commercial DVI formats. This enables commercial DVI monitors to be used in development and testing instead of high cost avionics grade displays.

The AVIA also enables standard PC video to be used in place of actual platform video data sources or sensors. This capability can be used to generate a DVI video test pattern or simulation that can be sent to an avionics display.

The AVIA unit integrates an FPGA with PanelLink, HOTLink, and Fiber Channel transceivers. The AVIA is managed by a micro controller. Both the micro controller and the FPGA are fully programmable to support many unique user configurations. The PanelLink, HOTLink, and Fiber Channel transceivers can be configured as receivers or transmitters.

Get a Quote

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Video Standards Supported

1. Avionics DV1 I, II, and III
2. Up to 1.5Gb/s serial data rate
3. Second generation HOTLink, backward compatible
4. Supports 8B10B encoding
5. Built-in self-test
6. Low Power PanelLink
7. Silicon Image, DVI video transceiver
8. Supports 24-bit/pixel, 16.7M true color
9. Up to 165 Mpixel/second

Software Support:

FPGA

- Industry Standard Integrated Software Environment (ISE)
- Extensive DSP library

Microcontroller

- Industry Standard Integrated Development Environment (IDE)
- Extended ISA