

**Comprehensive**  
**ARINC 818 Solutions.....**

# **ARINC 818 Video Protocol Analyzer**



# ARINC 818 Video Protocol Analyzer



iWave's ARINC 818 Video Protocol Analyzer (VPA) instantly verifies the ADVB Packets against ARINC 818 Standards. ARINC 818 VPA software efficiently capture, decodes the ADVB data and display the ADVB data, raw video data and error status.

### HIGHLIGHTS

- ARINC Video Protocol Analyzer verifies the ADVB Packets against ARINC 818 Standard
- Provides a frame-by-frame analyzing view for the captured ADVB F.C frames
- GUI application running on Linux PC will display the captured sample data for deep analysis
- Enables to store the captured data in a file for offline ADVB frame analysis

### SPECIFICATIONS

#### Hardware

- x1 HDMI Video Input up to Full HD @60 fps
- x1 HDMI Video Output up to Full HD @60fps
- 1x SFP Connector for ARINC 818 Optical or 75-ohm Copper I/P
- 1x QuadraX Connector for ARINC 818 100-ohm/150-ohm Copper Input
- Supports FC 1x, FC 2x, FC 3x and FC 4x link rates
- Commercial Grade Operation

#### FPGA

- Transmission Medium: Optical Fibre or 75-Ohm/100-Ohm/150-Ohm Copper Medium
- Supports any video resolution up to Full HD @ 60Hz in a progressive format
- FPGA based board used to receive and transmit the ADVB via SFP module
- Incoming ADVB frames are tapped and captured by FPGA Logic for analysis
- Captured ADVB frames transmitted to Host PC via PCIe port (x4 Gen2) for further analysis
- Internal Test Patterns to ARINC 818 TX

#### Software

- Compliant with ARINC 818 Standard
- Capture ADVB frame data of 2MB
- Linux Host:
  - Dell OptiPlex 3050MT or equivalent
  - RAM: 4GB
  - HDD: 1TB
  - OS: 64-Bit Linux Ubuntu 14.04 LTS
- GUI based SW application which provides interactive experience to the user
- Trigger modes: Immediate, Trigger On-Error (CRC Error, Sync. Loss Error, Frame Lost Error, Disparity Error, Payload Error, Any Error) & Order Set (IDLE, SOFi, SOFn, EOFn, EOFt)
- Saving and Loading captured ADVB RAW data samples
- Top to bottom GUI-based software design approach to view/analyze the different modes
  - Raw mode
  - Diagnosis
  - Video data
  - Transmit data

iWave Systems an ISO9001:2015 certified, 20+ years old leading Embedded design house based in Bangalore and a global leader in ARINC 818 solutions for both Defence and Aerospace applications. iWave offers comprehensive ARINC 818 Products which will help quicker time to market, lower your overall cost and technical support during integration. iWave can also quickly customize the ARINC 818 products and deliver.

#### iW ARINC 818 Video Protocol Analyzer

The device can be ordered online from the iWave website:  
<https://www.iwavesystems.com/product/arinc-818-video-protocol-analyser/> Or from our Local Partners in your Region:  
<https://www.iwavesystems.com/business-partners/>

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