iWave
Embedding Intelligence

Comprehensive
ARINC 818 Solutions……

ARINC 818 Recorder

ARINC 818 DVR is a multi-channel record/playback system that accepts any form of ARINC818 video input with different resolution & refresh rate. The received ARINC818 video stream is encoded with the assist of an on-chip H.264/H.265 video codec engine which is capable of performing simultaneous compression and decompression of video streams and the encoded video is stored in SSD hard drive.

Applications:
Video Recorder
Flight/Aircraft Recorder

HIGHLIGHTS

- Accepts ARINC 818 video stream at different resolution & refresh rate
- Quick ARINC 818 ICD customization as per customer requirement
- Link Rate Supported
  FC 1x, 2x, 3x, 4x

- Multi-Standard Encoding Support
  ISO MPEG-4 Part 10: Advanced Video Coding (AVC) / ITU H.264
  ISO MPEG-H Part 2: High-Efficiency Video Coding (HEVC) / ITU H.265
- ARINC 818 Recording & Playback support

SPECIFICATIONS

Transmission Medium Supported
Optical or 75-ohm Copper Input
Video Resolution Supported
Progressive Video Streams up to Full HD @60fps

Recording and Playback:
1x SATA M.2 Connector to plug SSD and store video data as well as playback recorded video stream via HDMI

Interface List
1x 10/100/1000M Ethernet
1x PCIe x2 link on M.2 M keyed Connector*
1x USB3.0 via M.2 Connector*
1x 4G module via M.2 connector (USB interface) *
1x mini PCIe form factor SATA via M.2 connector*
1x Debug UART via Micro-AB Connector

On Board Interface
2x HDMI 2.0 input via standard HDMI connector
2x HDMI 2.0 output via standard HDMI connector
2x SFP support up to 10Gbps
1x 5x8 Monochrome Character LCD
20x GPIOs via GPIO header
1x Reset Switch
5x General Purpose Switch

FPGA
Xilinx's Zynq Ultrascale+ MPSoC with FBVB900 package
16 Channels GTH Transceivers up to 16.3Gbps
4 Channels GTR Transceivers up to 6Gbps

Memory
8GB eMMC Flash (Upgradable)
64bit, 8GB PS DDR4 with ECC
6bit, 4GB PL DDR4

PCB & Enclosure Details
PCB Dimensions:110mm x 90mm
Heat sink: Custom Aluminum Enclosure
Cooling method: Conduction Cooling
Size: <120mmx100mmx50mm

Power Supply
12V, 5A DC via standard Power Jack
9V, 3A DC via Type-C connector
2x SFP support up to 10Gbps
1x 5x8 Monochrome Character LCD
20x GPIOs via GPIO header
Operating temperature: Commercial & Industrial Grade

*Note : Interface is provide in single M.2 connector and at a time only one interface can be supported.

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 Recorder
The device can be ordered online from the iWave website:
https://www.iwavesystems.com/product/arinc818-recorder/
Or from our Local Partners in your Region:
https://www.iwavesystems.com/business-partners/

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