

Since a vast portion of the newer applications of the ARINC 818-2 have several displays with many channels of ARINC 818-2 (4 to 8 Channels), switching has turned out to be more imperative. iW ARINC 818-2 Switch IP core is compatible with the ARINC 818-2 specification.

Applications

- Avionics Cockpit Display System like HUD/MFD
- Mission Computer
- Video Concentrator etc...

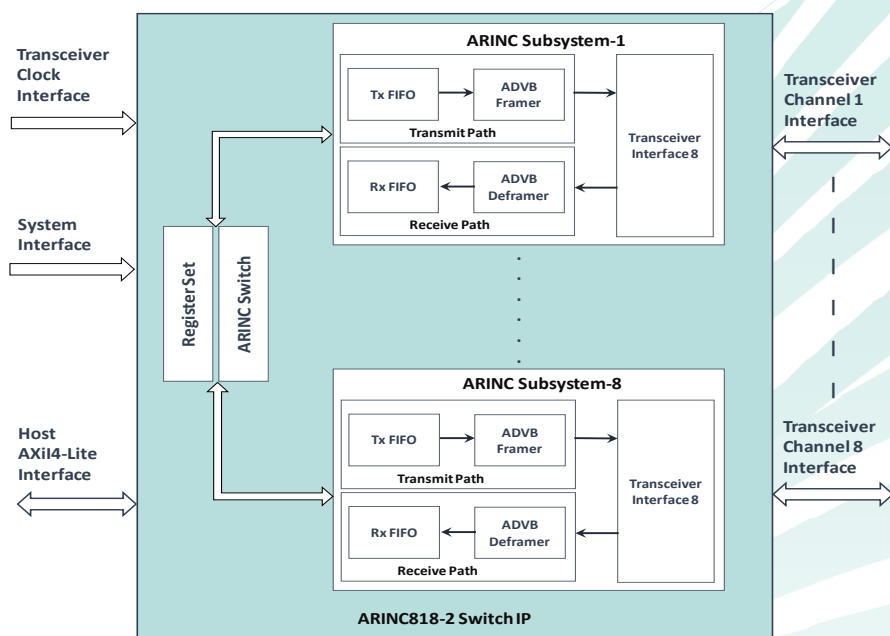
Highlights

- Quick customization as per customer's Interface Control Document (ICD) and deliver the same within 3-4 weeks' timeline
- Our IP core is not limiting the maximum resolution support and it completely depends on FPGA transceiver speed
- Transmission medium
 - Optical
 - 75-ohm, 100-ohm or 150-ohm Copper
- Intelligent, Synchronous switching of video frames

Features

- IP Compliant to ARINC 818-2 specification
- Video TX and RX interface: Simple Streaming Interface
- Supports link rates up-to FC 4x
- Supports Progressive and Interlaced Video Formats
- Supports Monochrome, RGB, RGBA and YCbCr Color Formats
- Supports Real-time link Control & Monitor through Web Browser
- Supports 8 Optical Transmitter / Receiver each capable of line rate up to 4.25Gbps
- Supports following Transmission Methods:
 - 1. Broadcast:** One video information is directed to all or numerous video output
 - 2. Unicast:** A video information is sent from one point to another point
 - 3. Multicast:** A video data is diverted to at least two video outputs
 - 4. Mixed:** Client can reroute any video input to any video output

iW ARINC 818-2 Switch IP block diagram



<https://www.iwavesystems.com/product/arinc818-switch-ip-core/>

Deliverables

- RTL source code or Netlist
- IP example design
- IP datasheet
- Integration Manual
- Linux/BareMetal driver reference
- User Manual

Licensing Options

- Non-Transferable: Single Project/Product Netlist License – Single Site
- Non-Transferable: Multi Project/Product Netlist License – Single Site
- Non-Transferable: Single Project/Product RTL Source Code License – Single Site
- Non-Transferable: Multi Project/Product RTL Source Code License – Single Site

Technical Support

iWave provides comprehensive support during your system integration & validation.

- The Client may open a new support incident by emailing to a technical support engineer
- iWave's response time shall be within 24 hours of the initial call, with the details of the action plan to resolve
- Support assistance shall be delivered by telephone, email and/or remote assistance via a web meeting
- iWave shall provide remote debugging support irrespective of the time zone/ region

iWave Systems, a leading FPGA design house enhances your design productivity by providing an extensive suite of proven, optimized and easy-to-use FPGA IP Cores along with reference designs to complement and quicken your applications development. Our extensive suite of IP Cores covers all key markets and applications. Along with the rich set of FPGA IP cores, iWave also offers custom FPGA designs tailored to meet the client specifications which includes RTL Design, Integration of iWave's or 3rd Party IP Cores on our FPGA SOMs with Carrier Card / Custom Hardware / Off-the-Shelf Evaluation Kits to provide end-to-end solutions targeting Low-Power, High-Performance and Optimized Designs.

iW ARINC 818-2 Switch FPGA IP

The IP can be ordered online from the iWave Website <https://www.iwavesystems.com/product/arinc-818-switch-ip-core/>
Or from our Local Partners in your region <http://www.iwavesystems.com/about-us/business-partner.html>

INDIA

iWave Systems Tech. Pvt. Ltd.,
7/B, 29th Main, BTM Layout
2nd Stage, Bangalore-560076
Email: mktg@iwavesystems.com

JAPAN

iWave Japan, Inc.
8F-B, Kannai Sumiyoshi Building,
3-29, Sumiyoshi-cho, Naka-ku,
Yokohama, Kanagawa, Japan.
mktg@iwavesystems.com

EUROPE

International Sales & Marketing Europe
Venkelbaan 55 2908KE Capelle
aan den IJssel
The Netherlands
info@iwavesystems.eu

USA

iWave USA
1692 Westmont Ave.,
Campbell, CA95008
USA
info@iwavesystems.us