

Comprehensive
ARINC 818 Solutions.....

ARINC 818 -2 Single Channel Converter



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iWave's ARINC 818 Single-Channel Converter is a rugged, standalone module designed for seamless conversion between HDMI/built-in test patterns/video source files and ARINC 818 formats accommodating various resolutions and refresh rates. The intuitive web-based GUI allows for easy remote configuration of the system, making it an ideal solution for complex video conversion needs in aerospace and defense environments.

HIGHLIGHTS

- Quick ARINC 818-2 ICD customization as per customer requirement
- ARINC818 will support standard/custom resolution and frame rate up to 2k@60fps

SPECIFICATIONS

Hardware Specifications

- 1x HDMI Video Input fixed at Full HD @60 fps.
- 1x HDMI Video Output fixed at Full HD @60 fps.
- 1x DP Video Output up to 2K @ 60 fps.
- 1x SFP Connector for ARINC 818 Optical or 75-ohm Copper I/P.
- 2x USB ports for storage media.
- 2X Ethernet interface for GUI Application & System Initial Configuration.
- Cooling Method: Conduction cooled Aluminum enclosure with Heat pipe
- Operating temperature: Commercial and Industrial Grade

ARINC818 SCC Specs

- Link Rate: ARINC818-2 Link rate supports upto FC8x and 10Gbps
- Resolution: Standard/Custom resolutions up to 2k@60fps subjected to link rate.
- Frame rate: 25, 30, 50, and 60 fps.

- Pixel format: Monochrome, RGB, YcbCr
- Scan - Progressive (left to right, starting at top)
- Pixel Aspect ratio: 1:1
- Pixel Table Number: 8-bit Components, four components per transmission word.

GUI Highlights

- Intuitive design with clear navigation and labeled sections.
- Easily adjust ARINC link rates via GUI.
- Supports standard and custom ARINC resolutions, frame rates, and SOF class.
- Auto-calculates ARINC video timings with custom options.
- Select HDMI, internal Test Pattern Generator, or video file as ARINC source.
- Control ARINC transmission and reception.
- View received ARINC resolution and color format.
- Select HDMI or DP as the output for ARINC input.

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 818-2 Single Channel Converter

The device can be ordered online from the iWave website:

<https://www.iwavesystems.com/product/arinc-818-2-single-channel-conversion-card/>

Or from our Local Partners in your Region:

<https://www.iwavesystems.com/business-partners/>

YouTube Video: <https://youtu.be/NK4EXYb5UpY?si=mjlfXyusuK1ExsY>

Note: iWave reserves the right to change these specifications without notice as part of iWave continuous effort to meet the best in breed specification. The registered trademarks are proprietary of the irrespective owners.

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