







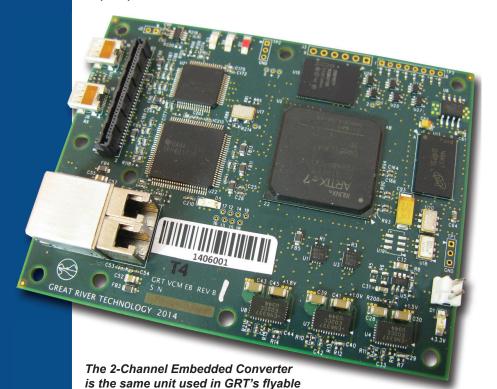
Advanced Video and Data Systems

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Revision A

## **Embedded ARINC 818 Converters**

1-, 2-, and 3-channel boards



GRT's proven ARINC 818 conversion technology is now available in embedded boards designed for aerospace applications. EB Converters integrate DVI into ARINC 818 systems, extending the life of legacy DVI equipment.

## **Features**

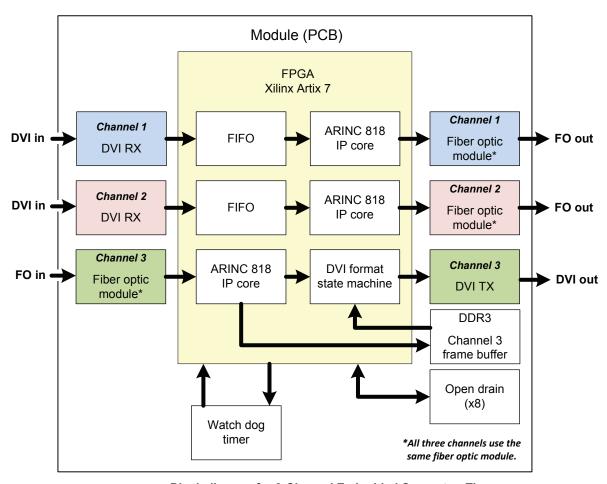
video converter module (VCM).

- · Aerospace applications up to DO-254 DAL A
- ARINC 801 or LC, 850nm multimode fiber input
- · Firmware matched to your project ICD
- Form factor can be customized to your mounting (requires 50 to 75 cm²)
- External watch dog timer monitoring circuit
- Reconfiguration time of less than 250 ms
- · SEU detection and recovery logic
- Status discrete signals to identify normal operation and video stream faults
- Stale image detection and annunciation logic

## **Specifications**

	1-Channel	2-Channel	3-Channel
Conversion	ARINC 818 to DVI	1 channel, DVI to ARINC 818 1 channel, ARINC 818 to DVI	2 channels, DVI to ARINC 818 1 channel, ARINC 818 to DVI
Power	< 5W	7W	< 8W
Dimensions	69 x 71mm (2.7 x 2.8")	75 x 90 mm (3.0 x 3.5")	76 x 97mm (3.0 x 3.8")
Connector	SAMTEC 130	SAMTEC 130	SAMTEC 140
Fiber connector	ARINC 801 or LC	LC	ARINC 801

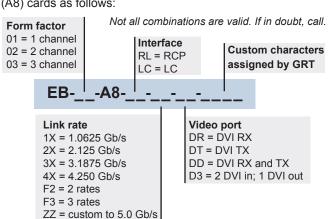




Block diagram for 3-Channel Embedded Converter: The module utilizes an FPGA to perfrom two types of video format conversitons. The FPGA configuration is stored via NOR flash during power down, which is transferred to the FPGA configuration PROM at power up. The module FPGA contains supervisory logic to monitor and report stream and fault status to the host system.

## How to buy -

Determine your part number\* for embedded (EB) ARINC 818 (A8) cards as follows:



For example:

EB-01-A8-RL-3X-DT-0000 or EB01A8RL3XDT0000

\*Great River Technology revised its part numbering system effective April 2013. Legacy part numbers are still honored. For details, see Part Numbers:

