

XF TUNER GEN 3

A New Generation of **Development & Robustness Testing Tool**

Create any ARINC 818 video format and insert errors in the transmitted ARINC 818 stream - all by means of an intuitive software GUI that allows users to perform available functions and adjust format parameters/characteristics. XF Tuner is a card and software application installed by Great River Tech in a Europa system. Use it to test ARINC 818 receivers in cockpit displays, flight recorders, or switches.

APPLICATIONS:

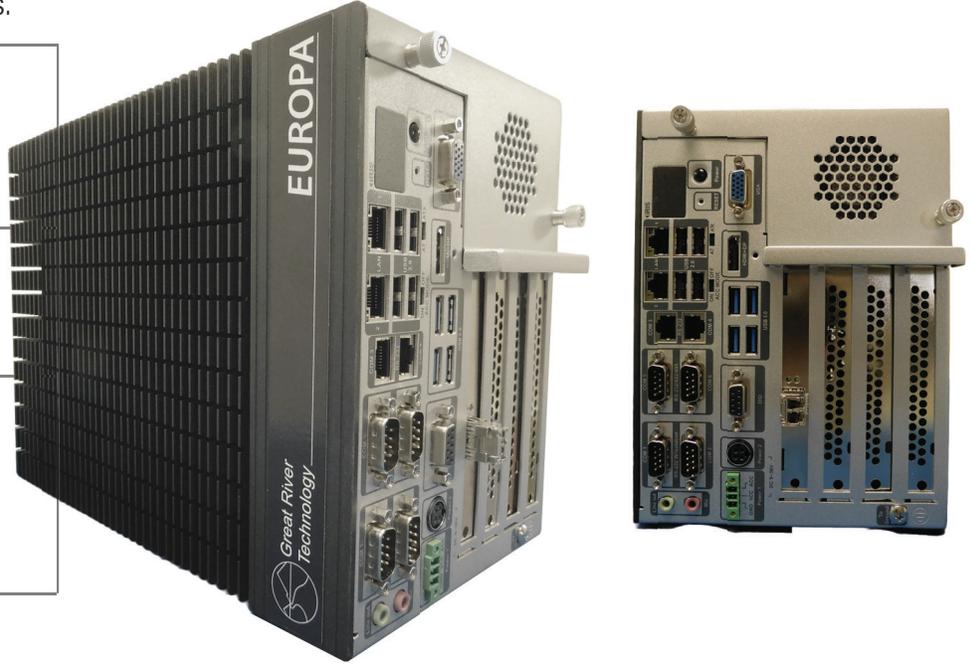
- Interface Control Document (ICD) Creation
- Display/Receiver Development
- Robustness & Qualification Testing

LINK RATES: (Gbps)

- 1.0625
- 2.125
- 3.1875
- 4.25
- 5.0
- 6.375
- 8.5
- 10.0

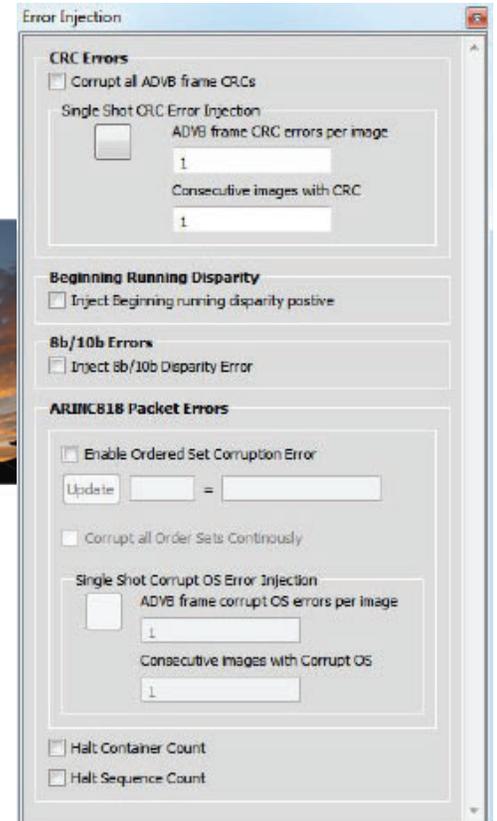
PIXEL TYPES:

- Monochrome 8-bit
- Monochrome 16-bit
- Color RGB 8:8:8
- Color RGB 5:6:5



FEATURES:

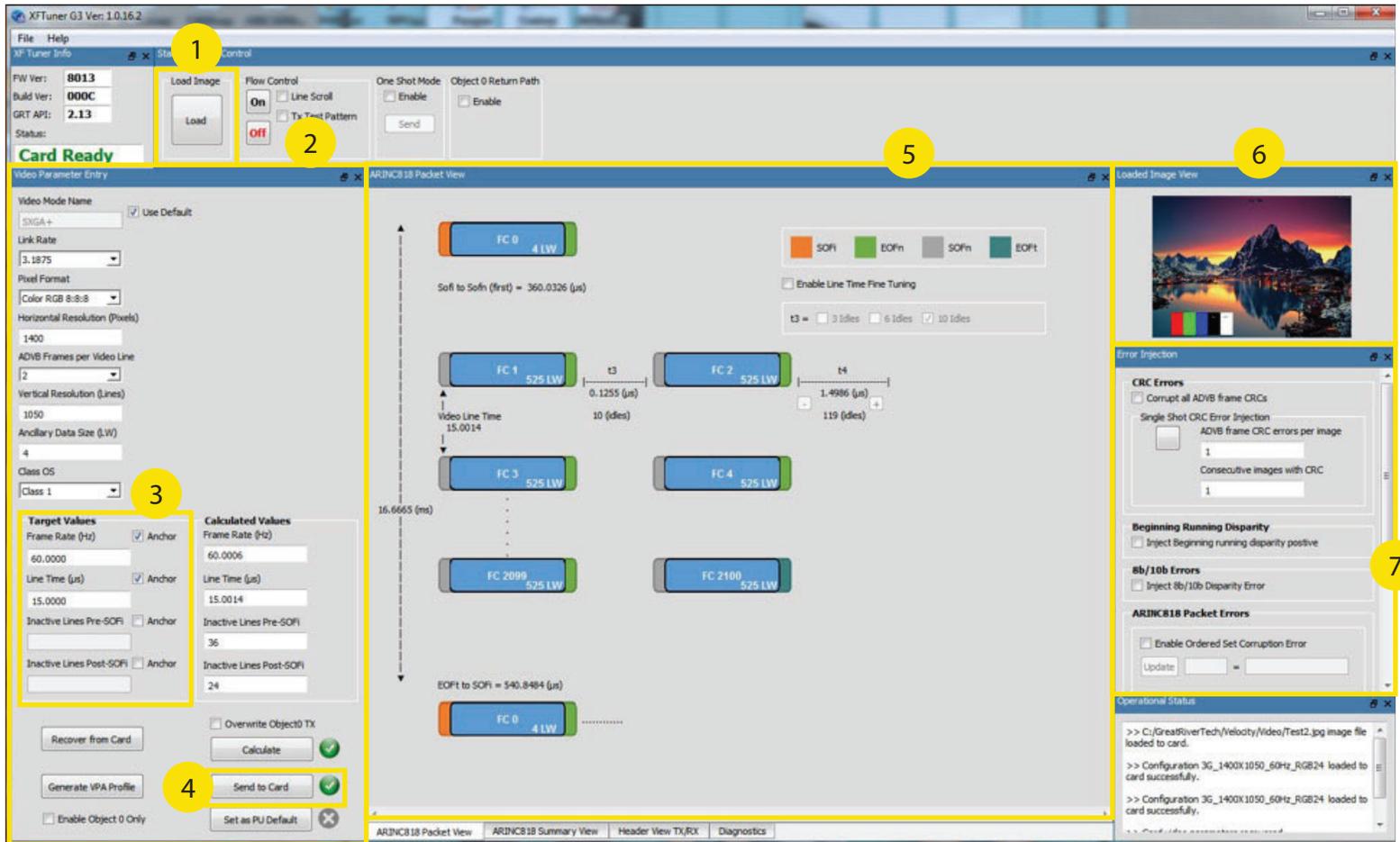
- Graphical View showing all Critical Parameters
- Parameter Anchoring
- Data-Only Transmission
- Creation of Protocol Library
- Error Injection (pictured right)
- Wide Range of Supported Formats (some shown below)



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XF TUNER GUI:

- 1 **Load** an image to the card.
- 2 **Enter your parameters** to adjust and calculate the protocol in real time.
- 3 **Anchor parameters** to prioritize line, frame, or vertical blanking time.
- 4 **Install** the protocol to your card.
- 5 **View** the critical timing parameters and video frame structure. Watch variables adjust in real time as you adjust using the + and - toggles.
- 6 **View** the thumbnail of your image to be transmitted.
- 7 Facilitate **Error Injection** into the ARINC 818 stream.



The screenshot displays the XF Tuner GUI with several key sections highlighted by yellow boxes and numbered 1 through 7:

- 1:** The 'Load Image' button in the top control panel.
- 2:** The 'Flow Control' section, including 'Line Scroll' and 'Tx Test Pattern' options.
- 3:** The 'Video Parameter Entry' panel, specifically the 'Anchor' checkboxes for 'Frame Rate (Hz)', 'Line Time (µs)', and 'Inactive Lines Pre-SOFI'.
- 4:** The 'Send to Card' button in the bottom right of the parameter entry panel.
- 5:** The 'ARINC18 Packet View' diagram, which shows a sequence of frames (FC 0, FC 1, FC 2, FC 3, FC 4, FC 2099, FC 2100, FC 0) with timing annotations like 'SofI to SofIn (first) = 360.0326 (µs)' and 'EOFT to SOFI = 540.8484 (µs)'.
- 6:** The 'Loaded Image View' window showing a landscape image.
- 7:** The 'Error Injection' panel, which includes options for 'CRC Errors', 'Beginning Running Disparity', and '8b/10b Errors'.

SPECIFICATIONS:

Operating System	Windows 10, 64-bit	Connectors	SFP
Power Requirement	20 W @ 12 V	Form Factor	PCIe half length
Operating Temperature	0-50°C (32-122°F)	PCIe Gen 3 x8	4 GB plus throughput
Weight	~ 9.1oz	Memory	256 MB (2 banks of 128 MB)
Physical Dimensions	6.875" x 4.2" PCIe standard height short	Standards	ARINC 818

HOW TO BUY:

The part number for XF Tuner (XF-E8) is as follows:

VF-E8-A8-O8-MM-00

Note:
The XF Tuner must be purchased in a European system.



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