

Flexible Hardware Options

The F-SIM-LDR-615 data loader development kit software can be paired with any of AIT's ARINC 429 interface modules to support a wide variety of data loader application environments. Compatible ARINC 429 interface modules are available in many form factors. The modules are supported by Windows (XP/7/8/10) and Linux (CentOS & Ubuntu) device drivers for easy integration.

PCI

For Desktop PC Applications



PCI Express

For Desktop PC Applications



PXI & PXI Express

For ATE Environments



USB

For Portable (PDL) Applications



PMC

For Embedded & Rugged Applications



XMC

For Embedded & Rugged Applications



Easy Software Integration

In addition to the F-SIM-LDR-615 GUI application, data load operations can also be controlled from an easy to use command line interface which allows the ARINC 615 loader to be embedded into custom and proprietary software applications. Additionally, the ARINC 615 data loader console application allows users to batch and script sequences of common operations into batch and script command files. The data loader software application is also integrated with AIT's ARINC 429 Analyzer software (F-SIM-A429) which allows the same ARINC 429 hardware to be used, simultaneously as a Data Loader and an ARINC 429 Analyzer/Simulator device. The ARINC 615 data loader is also integrated into the same application software that provides support for ARINC 615A (Ethernet) data loader operations.

The screenshot shows the AIT Flight Simulator software interface. The main window displays the ARINC-429 configuration for a device named 'device429' connected to 'USB429-16'. It shows two channels, Channel_1 and Channel_2, each with a Transmitter and a Receiver. A 'DataLoader' icon is also visible. A 'Monitor' window is overlaid on the bottom right, showing a table of data activity for Channel 1.

Label	Name	Message Count	Error Count	Average Period
321		987	0	0.010
322		2963	0	0.003
323		3951	0	0.002
324		9	9	1.000

Below the main table, there is a grid of data points from label 132 to 375. Labels 322, 323, and 324 are highlighted in green, and label 324 is also highlighted in red.

AIT ARINC 429 Analyzer & Simulator Applications Software

Fully integrated and customized data loader solutions also available. Contact AIT Directly for details!