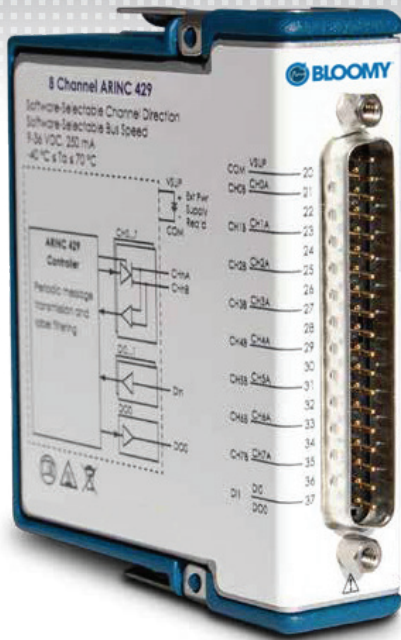


ARINC 429 cRIO Module



Superior functionality with unparalleled flexibility

Bloomby's ARINC 429 C Series module for NI CompactRIO platform facilitates test and simulation of systems which incorporate ARINC 429, the predominant avionics data bus for commercial and transport aircraft.

By leveraging the NI CompactRIO architecture, the module takes advantage of the real-time controller and FPGA functionality to provide a flexible software-based configuration and a full command interface for custom applications.

LabVIEW drivers and example code are available to allow users to rapidly develop custom applications.

The module is available with either four or eight independently direction-selectable channels. A fault-injection version of the module is available which injects errors between transmitters and receivers.

FEATURES

- Software-selectable bus speed for each transmit channel
- Automatic bus speed recognition for each receive channel
- Hardware-based periodic message transmission
- Hardware-based accelerated received message indexing by label
- Small FPGA footprint
- Direct transmit and receive buffer access
- Available real-time inline fault injection
- Includes LabVIEW drivers and example code

APPLICATIONS

- Aircraft system monitoring and diagnostics
- Flight line diagnostics
- Operational flight program (OFP) upload/verification
- Fault code download
- Device simulation
- Functional unit testing

TECHNICAL DATA

- 4 or 8 channels with independent, software-selectable direction
- 12.5kb/s and 100kb/s software-selectable bus speed
- Short-circuit proof transmit channels
- -40°C - 70°C environmental temperature
- 9V - 36V, 250mA (max.) external power supply

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1200-00026-4	4-Channel ARINC-429 Module
1200-00026-8	8-Channel ARINC-429 Module
1200-00026-4F	4-Channel Inline Fault Injection Module (available 2019Q4)
1200-00026-8F	8-Channel Inline Fault Injection Module (available 2019Q4)



Call 860-298-9925 or visit
www.bloomy.com