A429-USB-NT 2Tx/4Rx
Intelligent ARINC 429 USB Device

- 2 Tx and 4 Rx channels
- Avionics Discretes 6 In/6 Out
- Automatic receive data time-stamping and transmit data scheduling
- Software support for all Windows® operating systems (including Windows 7 64-bit)
- General purpose ARINC 429 Bus Analyzer & Simulator available

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Application Area

Avionics maintenance, testing, integration, and troubleshooting in both mobile and stationary environments require handy and easy-to-use equipment, which offers highest performance as well as large-scale flexibility in very small dimensions.

Combined with a comprehensive ARINC 429 interface, the widespread USB standard establishes the most efficient platform for standard analyzing and simulation tools as well as specific ARINC 429 applications. By utilizing standard notebook PCs maximum mobility and flexibility can be reached. The demanding real-time requirements of ARINC 429 protocol communications and the handling of the increasing amount of information and data exchanged via ARINC 429 must be supported by local on-card processing power.

Features

The A429-USB NT is an intelligent ARINC 429 USB card with an onboard FPGA. It is based on USB standard 2.0 and supports USB high speed operation. It is in fact a complete computing engine in USB form factor, equipped with 2 Tx channels and 4 Rx channels. Each of the Tx channels is connected to a dedicated loopback receiver.

Additionally, Discrete I/O lines (6x GND/OPEN In and 6x 28V/OPEN or GND/OPEN Out) are available.

A429-USB Firmware / Software

The firmware can be upgraded in-system through the USB interface. The software interface is available for Microsoft Windows beginning with Win XP (driver and DLL). Windows plug&play is supported.

Mechanical Outline

The A429-USB NT device is embedded in an aluminum case with a high retention high speed USB-B connector and a D-sub 50 connector for the I/O.