

CP7026

OPTO-ISOLATED ARINC-429 TO USB CONVERTER MODULE



Product Features

- Compact size 120 x 65 x 30 mm
- USB bus powered
- Suitable for use with Laptops & Desktops
- Simple to configure
- Windows 2000 / XP / VISTA compatible
- Graphical & tabular display formats
- Real-time acquisition
- Engineering units display
- Windows API, LabView & CVI Drivers available
- 32 bit time tag with 250uS resolution
- Programmable transmitter amplitude
- Single & dual channel options
- Opto-isolated or high impedance receiver options
- -15 To +55 operating temperature range

Product Overview

The CP7026 ARINC-429 to USB Converter Module provides data conversion from the Aerospace ARINC-429 data bus to the commercial Universal Serial Bus (USB).

The CP7026 may be "hot plugged" from PC to PC, Desktop or Laptop, without the inconvenience of dismantling the PC to fit a PCI card or possible damage to the fragile connections usually associated with PCMCIA cards.

The CP7026 is ready to use straight out of the box with a USB interface cable, mating connector and Bus Inspector Lite Edition software application supplied as standard.

The CP7026 has one receive and one transmit channel as standard, but can be supplied with up to two receive and transmit channels if required. Each receiver channel has the option of opto-isolated or high impedance input configuration depending upon your requirement (must be specified at time of order.)

The ARINC-429 interface is provided via a female 15 way D-type connector, with USB connectivity via a standard type B connector.

Data rates of 12.5KHz or 100KHz can be selected for each transmitter and receiver independently. Up to 256 transmitter words may be defined per channel in a user defined sequence. There is no limit to the number of words which can be received / defined.

Once the CP7026 is connected, the Bus Inspector application searches the bus automatically determining the bus speed and labels that are present upon it. Each label will then be decoded in accordance with the ARINC-429 specification or user defined word format. The received data can be displayed in both a graphical and tabular format.

The Bus Inspector application software allows user defined engineering units conversion, and the ability to acquire data to a file for export to spreadsheets and databases for further analysis.

The ARINC-429 transmitter can be configured for static data or up to 5 parameters may be configured to ramp between user defined end points at a given rate of change / step size.

Please contact us for further information and demonstration.

Rev 2.0 November 2007



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