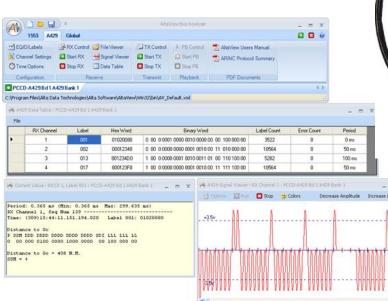


# NLINE-UA429<sup>™</sup>

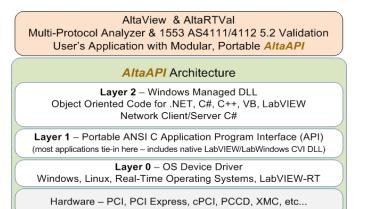
# In-Line ARINC to USB 3.1

- USB 3.1 <-> 1-8 ARINC Channels

   4 Channels RX or TX; 4 RX Only Channels
- 3 Simultaneous RX Modes, and Advanced TX Label Scheduling
- USB 3.1 Interface. USB 2 Compatible, but Not Recommended
- Ideal for Lab, Sims or Rugged Deployed
- Extended Temp Parts Available
- IRIG-B RX Decode, Triggers
- Windows 8 & 10, and Linux Drivers



Optional AltaView Windows GUI. Full Label Decode/Encode. Signal Capture on First 2 RX Channels!!





ISB Type A

**NLINE-UA429**<sup>™</sup> is an innovative product of ARINC operations for USB connections, ideal for in-field applications or point-point lab usage.

Female DB26

ARINC Signal

Alta has combined the industry's most advanced 32-bit ARINC FPGA protocol engine, *AltaCore*<sup>TM</sup>, with the same featurerich application programming interface, *AltaAPI*<sup>TM</sup>, as used with standard cards, often without even recompiling - the ultimate in code portability.

AltaAPI SDK is provided at no-cost with all products. The SDK is a properly layered, abstract Development tool for ARINC or 1553 products.

# www.altadt.com

4901 Rockaway Blvd., Building A Rio Rancho, NM 87124 USA (In US): 888-429-1553 (Outside US): 505-994-3111 Fax: 805-504-8588 Page 1/2

### General

- 4 or 8 ARINC Channels
  - First 4 RX/TX Selectable
    - Each Shared RX/TX has TX Electrical Load, and RX Drain When Powered-off. RX Only Option (-I) Recommended for Critical Systems.
  - Second Group of 4 RX Only
- Support ARINC-429/575/573/717
- USB 3.1
  - USB 2.0 Compatible, but Not Recommended.
- 5V @ 2 Amp Power (Normal with USB 3.1)
- USB-A Connector Female DB26 for ARINC Signals
- Encode or Decode Almost any ARINC-429 Physical Layer Signal (512-200K Baud)
- Signal Capture on First 2 RX Channels
- One Megabyte RAM for Buffering
- Flash Disable Factory Setting for Secure Mem
- Parts Temp (C): -55 to +120 Storage, 0 to +70 Commercial
   -40 to + 85 Ext Temp Parts (-E Option)
- LVTTL Trigger In and Out
- Power-Up, Loop-Back and User BIT
- Polling Interrupts
- IRIG-B PAM RX
- IPC Level 3 and ISO 9001:2015 Processes

#### **TX Features**

- Simple or Detailed Frequency (Hz) Control Per Label/Word List
- ARINC-717 Frame Support
- Full Error Injection

#### **RX Features – Three Buffering Modes**

- Channel Level Label/Word Tables
- Channel Level Current Value Tables
- Multi-Channel Data Tables for All Channels
- ARINC 717 Frame Support
- 64-Bit, 20 nsec Time Tags, Interrupts, Trigger
- Full Error Detection

#### **Signal Capture**

- 2048, 500 nSec, 8-bit A/D
- Troubleshoot Cabling, and Model Topology for Security Analysis

# Playback/Signal Generator (TX)

- Real Hardware Playback from Archive Files
- H/W Playback Timing to 20 usec
- Signal Vector Generation at 1 uSec \*\*INDUSTRY FIRST\*\*
  - Construct Bit Encoding
  - o Ideal for Test Validation

#### Software: AltaAPI & AltaView

- Multi-Layer AltaAPI Architecture to Support Windows and C Linux
  - Optional Windows Analyzer: AltaView
    - Full Analyzer Integration Tool
    - RX Label Decode/TX Encode
    - Data Logging and CVT Displays
    - Multi Language Support
    - "-A" Option at end of Part Number

# **Part Numbers**

- NLINE-UA429-4
  - 4 Shared RX/TX
    - o 2 RX/2TX ARINC-717 Shared Channels
      - (Each 717 Tx or RX Replaces Two 429 Channels)

#### • NLINE-UA429-8

- 4 Shared RX/TX; 4 RX Channels
- o 2 RX/2TX ARINC-717 Shared Channels
  - (Each 717 Tx or RX Replaces Two 429 Channels)

(Each Shared RX/TX has a TX Electrical Load) Options: Add -E for Ext Temp Parts (-40 to +85C), -I TX Inhibit, -N Flash Write Inihibit, Add –A for AltaView Analyzer. Example: NLINE-EA429-8-AEIN

# **5 Year Limited Warranty**

EU and China RoHS Compliant Contact Alta for Special Lead Build Configurations Non-Public Telcom/CE Device

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