

ALTA DATA TECHNOLOGIES RELEASES RUGGED, IN-LINE ARINC ETHERNET CONVERTER

Multi-Channel ARINC Interface Embedded In-Line (NLINE) The Cable Assembly

Rio Rancho, NM (August 5, 2021) - Alta Data Technologies (Alta) has released an innovative Ethernet ARINC-429 product built directly in-line to a small, rugged cable assembly: [NLINE-EA429](#). This product connects [ARINC](#) devices to notebooks, desktops and servers via 10/100/1000 Ethernet. In addition to 4 or 8 channels of ARINC RX/TX message controls, NLINE-EA429 can generate or capture (o-scope) raw bus signals for protocol and electrical troubleshooting, and cybersecurity modeling. The product is ideal for both lab and deployed applications, and is available now for immediate delivery.

“The NLINE-EA429 product provides the latest interconnect technology for ARINC busses, but not our last! This week we also released a USB SuperSpeed version of in the same small, rugged, in-line assembly: NLINE-UA429. Along with the widest selection of ARINC interface boards, the customer now has ultimate choices for ARINC connections. All products are accompanied with the AltaAPI SDK, and AltaView Windows analyzer to provide customers quick integration for their ARINC applications. For most existing applications, they can use the NLINE-EA429 product with little or no code changes,” states Harry Wild, Vice President of Sales for Alta.

Jake Haddock, Alta CTO, continues, “This new NLINE-EA429 product provides real-time ARINC-Ethernet conversion for incredible system design options; it can even auto convert (bridge) ARINC-429 RX label groups to Ethernet without any programming. Our team did an amazing amount of R&D to develop new packaging techniques to embedded our ARINC design directly into MIL qualified cable assemblies. Now customers can literally just connect-up and go.”

Almost every avionics or communication system implements an Ethernet topology, but most ARINC Ethernet converter products are processor/Linux based with unsecure IP network stacks that greatly slow down Ethernet communications. ENET and NLINE designs are FPGA hardware-based UDP thin servers that provide real-time Ethernet/ARINC bridging/conversion, reducing threats of viruses or internal hacking. These products provide all the advanced controls of traditional ARINC and 1553 interfaces, and can simultaneously auto bridge time-stamped ARINC-UDP packets without any programming. There is a fast auto-boot feature, and RX/TX controls can be managed through standard socket communications as implemented in almost every OS, even DO-178 compliant systems.



About Alta Data Technologies

Alta is a rapidly growing company that provides industry leading 1553 and ARINC interface products with over \$150M of COTS products sold. Alta's products are offered in high-density channel configurations, IRIG Time Code Decoder, Triggers, Discretes and the advanced [AltaAPI](#), [AltaView](#) Analyzer and SAE AS4111 5.2 [AltaRTVal](#) software packages. Other products include: PMC, XMC, PCI Express, PCI, PC/104, cPCI, PXI, PXIe, mini PCIe, etc. Operating system platforms include MS Windows, Linux, VxWorks, Greenhills Software' Integrity, National Instruments' [LabVIEW/Windows](#). Thunderbolt and the Thunderbolt logo are trademarks of Intel Corporation in the U.S. and/or other countries. For more information, contact Alta at www.altadt.com.