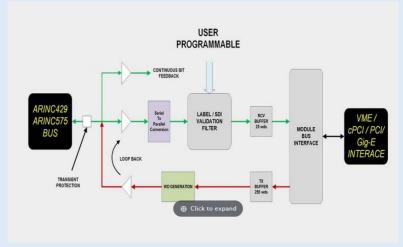




ARINC - NAI's ARINC 429/575 smart function modules provide up to twelve programmable channels. ARINC 429 is a data transfer standard for aircraft avionics. ARINC 575 is an equipment characteristic for a Digital Air Data System (DADS) that provides essential air-data information for displays, autopilots, and other flight controls and instrumentation on commercial and transport-type aircraft. ARINC 568/579 smart function modules provides a communications interface with 2 channels. ARINC 568 is an equipment characteristic for Distance Measurement Equipment (DME). ARINC 579 is an equipment characteristic for a VHF Omnidirectional Radio range (VOR) short range navigation system.



Module	Description
AR1	12 Channels, ARINC 429/575 Communications
AR2	2 Channels, ARINC 568/579 Communications

Transient Protection

The module is normally configured for transient protection but can be specified without if protection is implemented externally

Features

AR1

- Receive/Transmit mode programmable per channel
- 100 kHz or 12.5 kHz operation per channel
- Transmit: 255 message FIFO or scheduled transmits per channel
- Async transmits during scheduled transmits
- Receive: 255 message FIFO or mailbox buffering per channel
- Message Validation (SDI/Label Filtering) on received messages per channel
- Selectable hardware parity generation/checking
- Receive time stamping
- Continuous BIT
- Loop-back test
- Tri-state outputs
- High and Low speed Slew Rate outputs

AR2

Receive/Transmit mode programmable channel (ARINC-579)

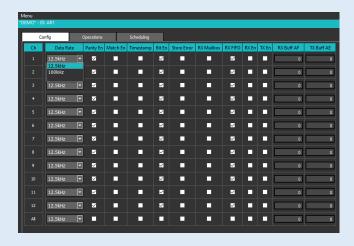
- Separate Receive and Transmit channel (ARINC-568)
- 11 kHz transmission rate
- Programmable gap times
- Transmit: 1024-word FIFO per channel
- Receive: 1024-word FIFO per channel
- Selectable hardware parity generation/checking
- Receive time stamping
- Continuous BIT
- Loop-back test
- Tri-state outputs
- High and Low Speed Slew Rate outputs

New Embedded Soft Panel

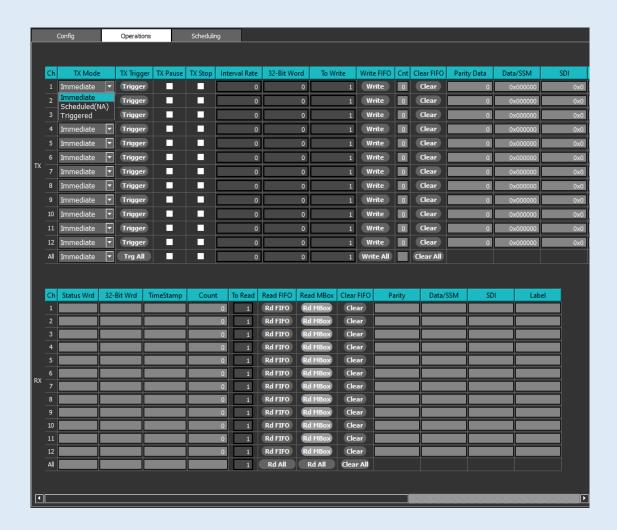
North Atlantic Industries offers the newest cross platform (Windows and Linux) GUI for our Gen 5 products that allows a user to quickly interact with our broad range of modular, I/O cards and rugged embedded computing products. Embedded Soft Panel 2 (ESP 2) is coherent and easy to use with a clean, fleshed out UI with features such as drag and drop dock able windows, a dark and light theme, and multi-language support. Multiple ways to open a board are offered, including saving board opening settings for future use. Interacting with and collecting information on hardware is simple to do with the register editor for reading and writing specific addresses, and the API logger which logs all API library calls including their return status and parameters. ESP 2 has many new features and provides an organized and effortless interface for NAI's next generation products. Available for CentOS 7.4 and 8.2 and Windows 10 x64



AR1 Example Demo Mode



5	Status													
Ch.	RDA	RFAF	RFF	RFO	TFAE	TFE	TFF	PE	RE	BE	SI	ADA	TC	RL
1			D L											Reset Latch
2														Reset Latch
3														Reset Latch
4														Reset Latch
5														Reset Latch
6														Reset Latch
7														Reset Latch
8														Reset Latch
9														Reset Latch
10														Reset Latch
11														Reset Latch
12	D L	D L	D L	D L	D L	D L	D L	D L	D L	D L	D L	D L	D L	Reset Latch



For more additional information contact ティー・ピー・ティー株式会社 (TPT K.K.)

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Rev A