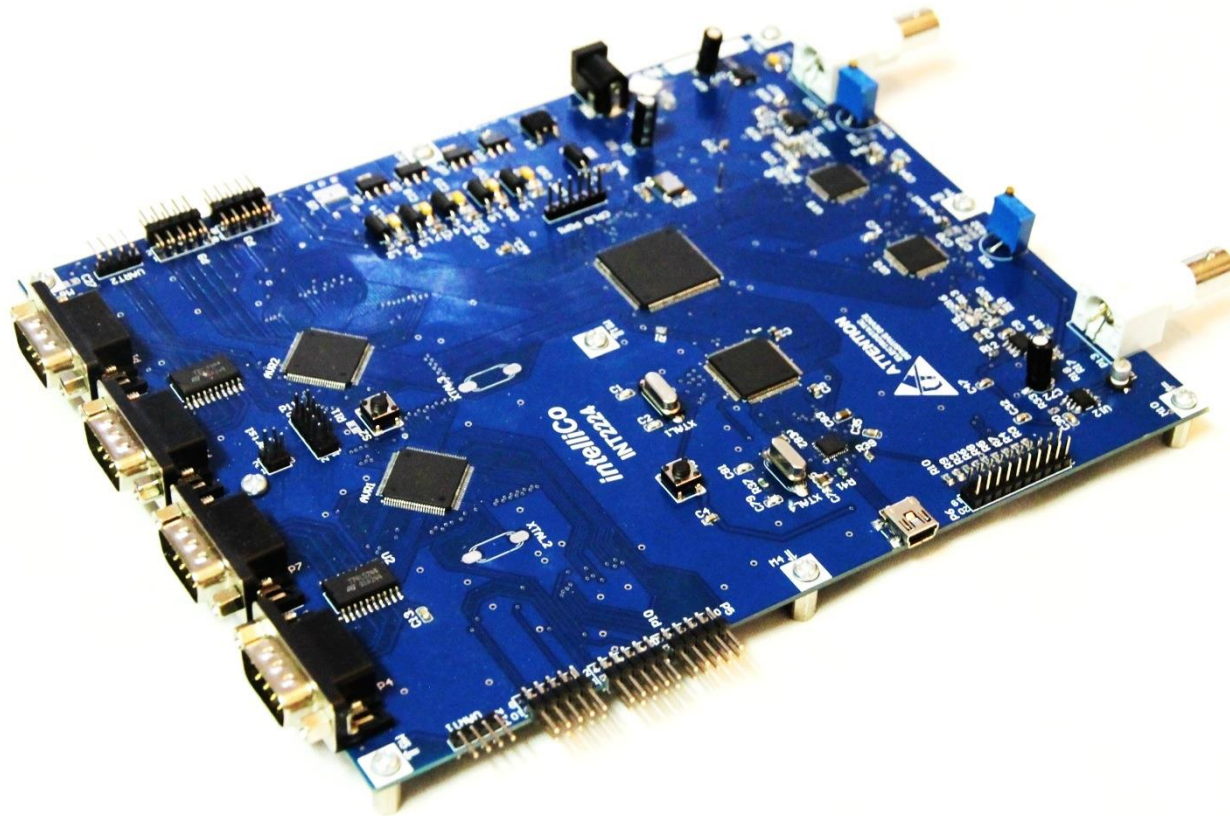


## INT2224 Catalog



## **INT2224 Description:**

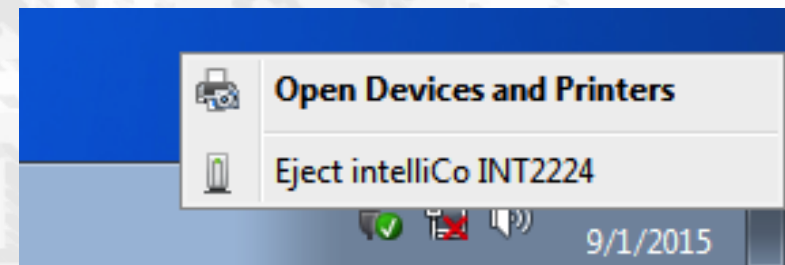
The INT2224 is a Dual Channel, 24-Bit, 625kS/s (programmable up to 2.5MS/s), Simultaneous Data acquisition module that transfers data in real-time to PC using the USB2.0 HS port. Its analog inputs ranges are: 0V to 5V, -2.2V to +2.2V including Wide-band analog front-end amplifier.

This module is a Plug and Play USB device (intelliCo INT2224) that uses a couple of AD7760 24-Bit ADCs for synchronous data sampling, a XC95288 CPLD for ADC data manipulation, a STM32F407 ARM Cortex-M4 Microcontroller to establish USB high speed communication and a couple of ATMEGA 256 AVR Microcontrollers as custom user programming devices. Plenty of available GPIO and UART Ports are also included in the module that some of them are buffered.

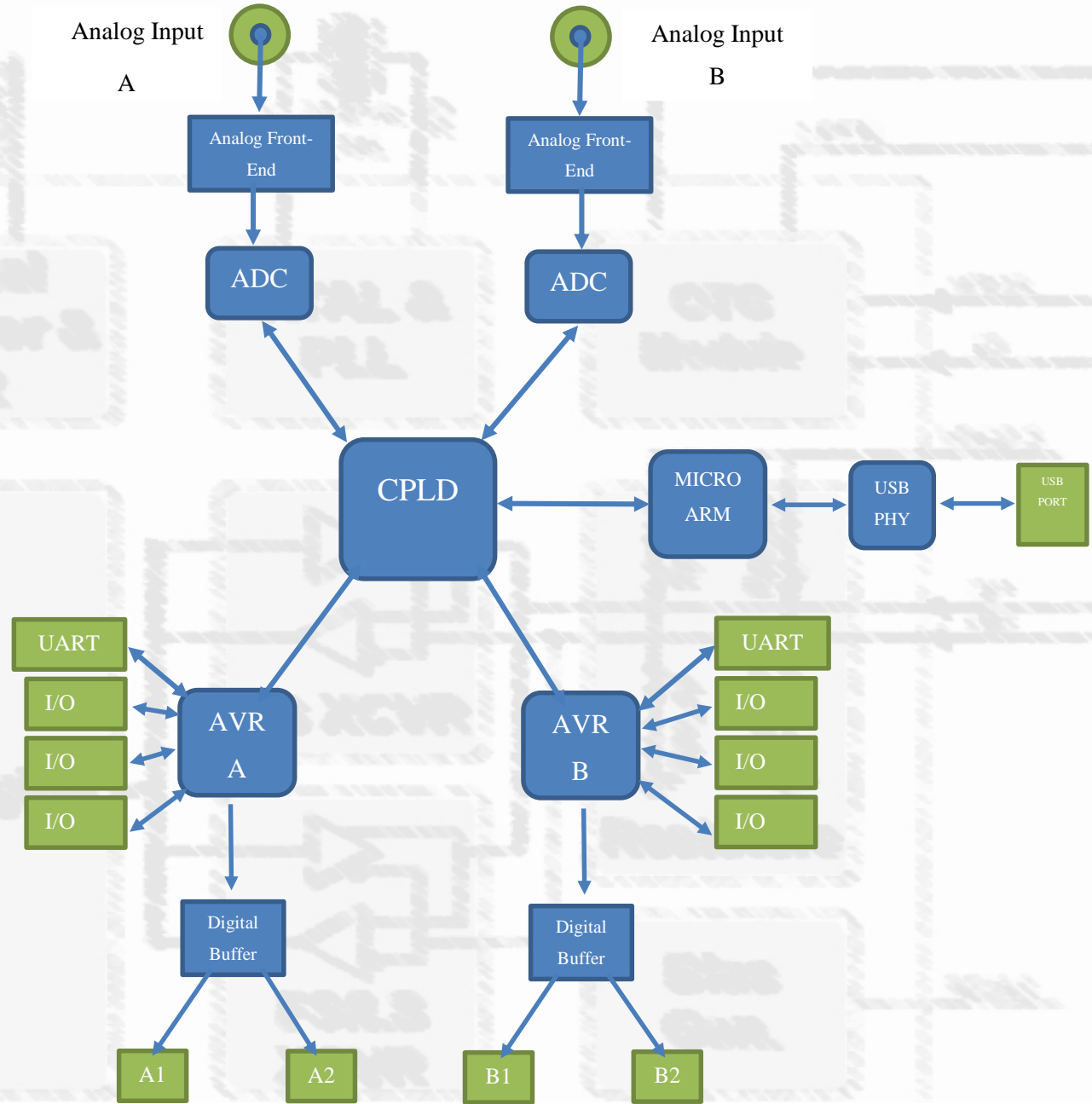
The module is delivered with fully functional Windows and LabVIEW software Drivers. A couple of user-friendly VIs in LabVIEW is designed to make the user able to save the acquired samples to a binary file (\*.bin) or graphically show the signals of both channels. The saved .bin files could be read and decoded in MATLAB environment using a script (INT2224.m) and to make plots for each channel.

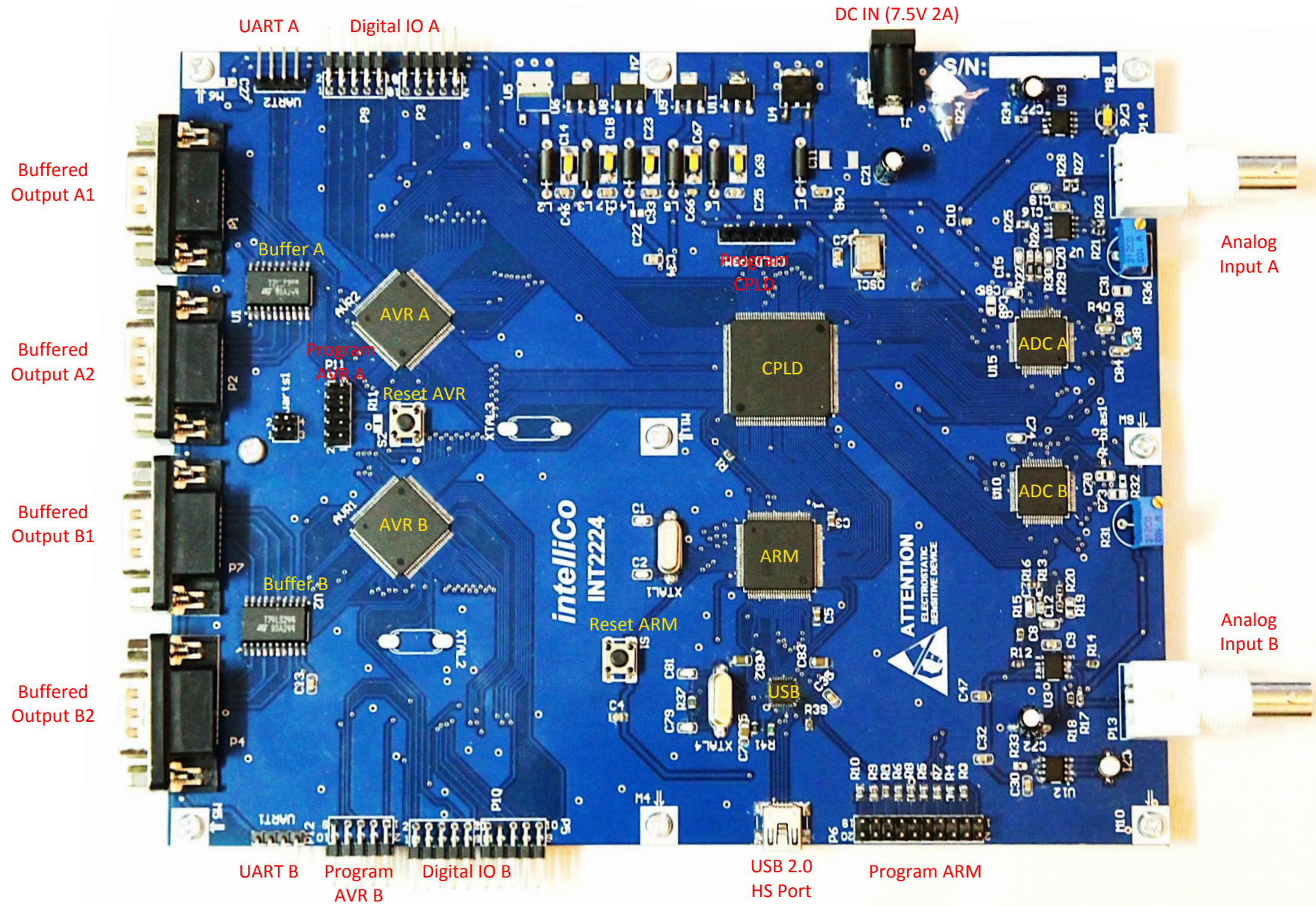
## INT2224 Specification:

- Dual Channel, 24-Bit, 625kS/s, Simultaneous Data acquisition module
- Real-time data transfer to PC using the USB2.0 HS port
- 0V to 5V, -2.2V to +2.2V analog input including Wide-band analog front-end amplifier
- Plug and Play USB device (intelliCo INT2224)
- Easy to install and use Windows and LabVIEW Drivers
- Using a couple of AD7760 24-Bit ADCs for synchronous data sampling
- Using XC95 CPLD for ADC data manipulation
- Using STM32F407 ARM Cortex-M4 Microcontroller for establish USB high speed communication
- Using a couple of ATMEGA 256 AVR Microcontrollers as custom user programming devices
- Plenty of available GPIO and UART Ports (Some are buffered)
- LED indicator for Power
- LabVIEW VIs and MATLAB script for data storage and plot
- One year warranty
- 10 years of technical support

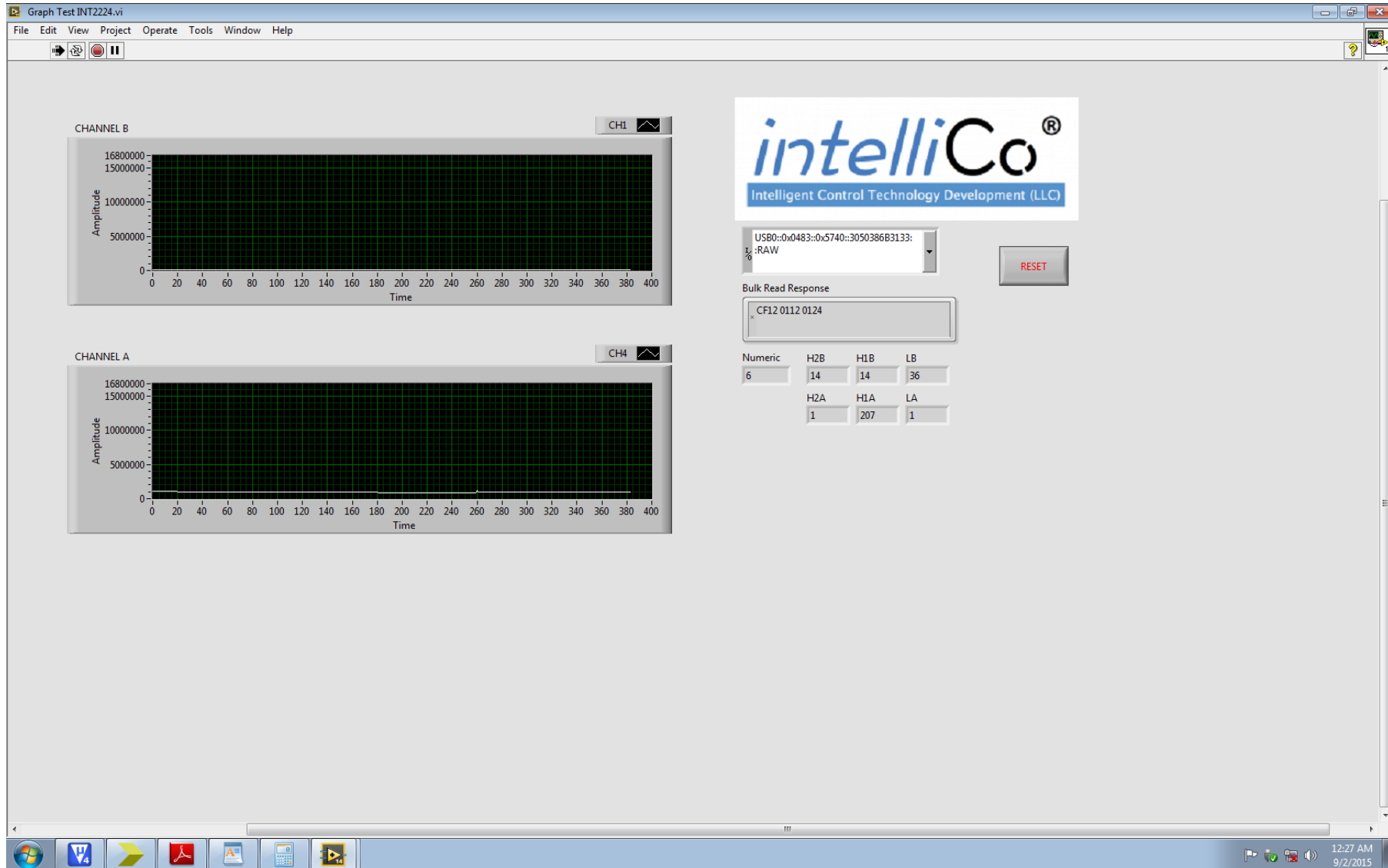


**INT2224 Block Diagram:**





## INT2224 VI Screenshot:



## MATLAB Plot Screenshot

