AP-560

Analog Scope DataPHY
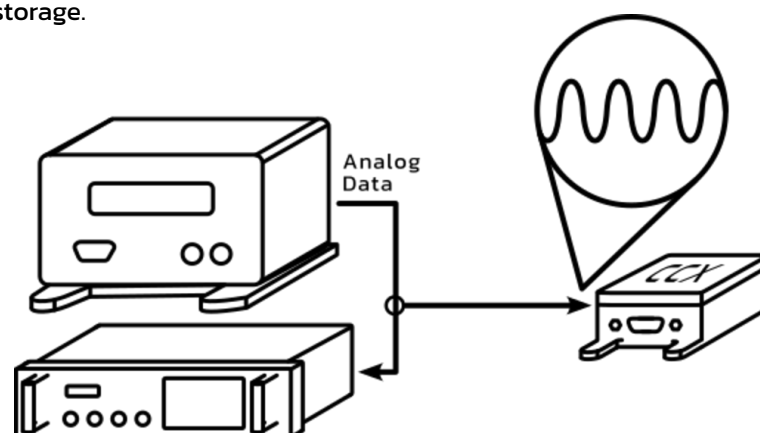
CCX
T E C H N O L O G I E S

The AP-560 Analog Scope DataPHY contains a Universal ADC (Analog to Digital Converter) Front-End that can be used as an oscilloscope and data-bus decoder for any data-bus protocol (ARINC-429, MIL-1553, ARINC-717, CAN Bus, etc.). In a 1 by 2 by 3 inch enclosure it is the world's smallest avionics data collection system.
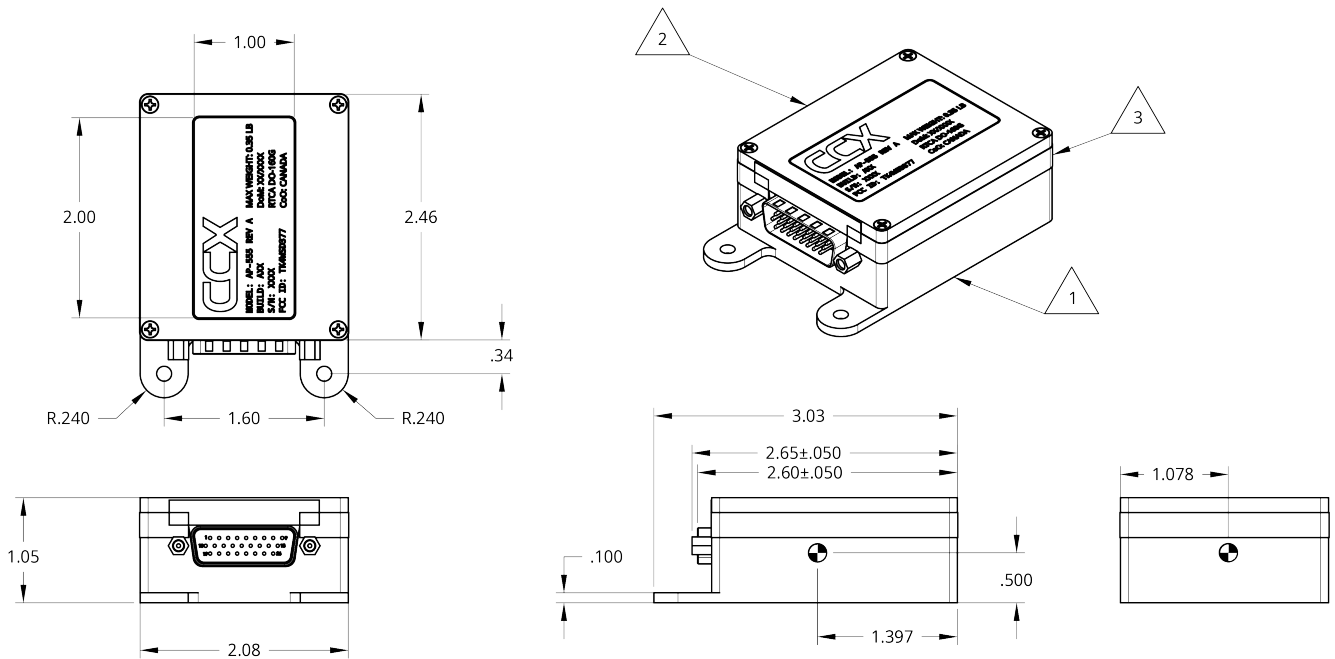
The analog data collected by the ADC can be used to create a hardware signature which the SystemX Avionics IDS can use to detect unauthorized equipment installed on a databus, as well as identify possible installation errors and system degradation requiring maintenance.

Within a very small form factor, the Analog DataPHY contains two universal analog receivers, a Gigabit Ethernet interface, an 802.11ac WiFi Radio, an integrated antenna, and 120GB of local storage.

Features

– Lightweight and compact
– ADC Front-End
– Compatible with any data-bus protocol
– Collected data can be monitored as part of an avionics Intrusion Detection System
– Includes a customized version of the SystemX Operating System
– Data can be forwarded to Electronic Flight Bag software on a connected tablet
– Integrated antenna
– 120GB for data storage

Analog Data

Technical Information

Dimensions	2.46"L x 2.08"W x 1.05"H
Weight	0.35lb
Mounting Provisions	2 mounting holes for #6 bolts or screws; flange mount. Option to install in 2 or 4 MCU form factor with an IK-350
Connectors	MIL-DTL-24308G 26-pin Male HD D-sub
Operating Voltage	28VDC
Typical Power Consumption	2.5W
Maximum Power Consumption	5W
WiFi[1]	IEEE802.11ac/n/a/b (WiFi 5), 2.4GHz/5GHz, radio with radio enable discrete input
Ethernet	10/100/1000 BASE-T IEEE 802.3 Compliant Ethernet Ports with: ACS, Automatic MDI/MDIX crossover, Automatic polarity correction, and IEEE 802.3u compliant auto negotiation
Analog Receiver	Analog RX Only
Discrete GPIO	ARINC-628 GND/Open and High/Low Sensing Discrete Inputs/Outputs
Data Storage	120GB
Environmental Qualifications	RTCA DO-160G

[1]All DataPHYs are available with hardware disabled WiFi radios for applications with security requirements that don't allow for wireless connections.

Interfaces

QTY	Interfaces	Standards
1	Ethernet	1000/100/10BASE-T (IEEE 802.3ab/u/i)
1	WiFi (Integrated Antenna)	IEEE 802.11ac/n/b/a (2.4 GHz/5GHz)
2	Analog Receiver	ARINC-429, MIL-1553, CAN Bus, ARINC-717, Analog Signals
1	Radio Disable Discrete Inputs	ARINC-628
1	Discrete Output	ARINC-628
1	Discrete Input	ARINC-628
1	Power	28V DC

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SYSTEM X