AP-558

CAN Bus DataPHY Data Recorder
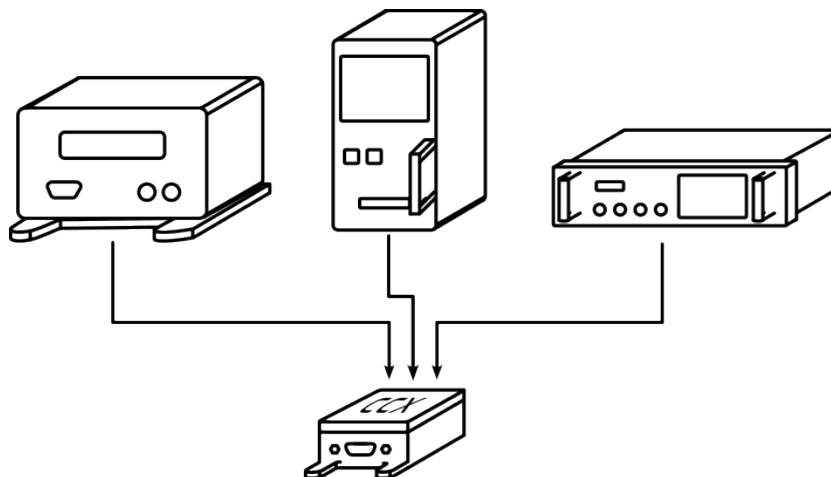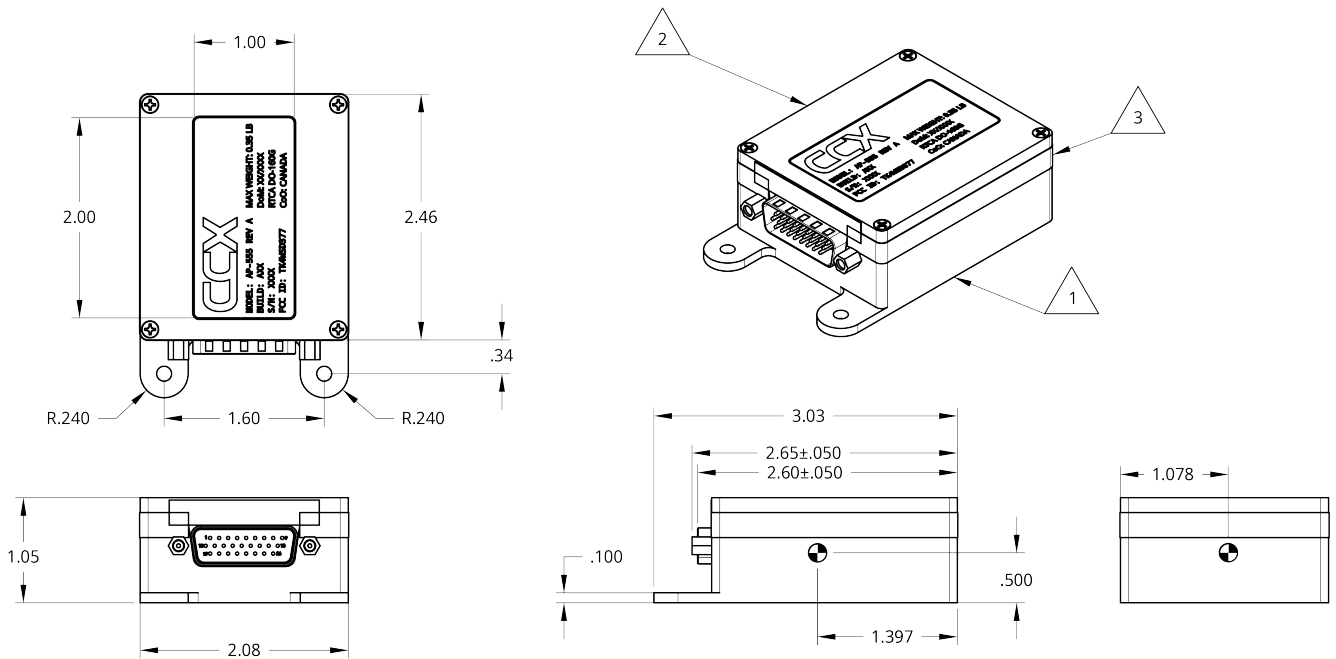
CCX TECHNOLOGIES

The AP-558 DataPHY records CAN Bus traffic from avionics equipment and ECUs on land-based vehicles. This recorded data can be securely shared with other equipment, either in real-time or post flight. In a 1 by 2 by 3 inch enclosure it is the world's smallest CAN Bus data collection system.

Within a very small form factor, the CAN Bus DataPHY contains four CAN Bus receivers, a Gigabit Ethernet interface, an 802.11ac WiFi Radio, an integrated antenna, and 120 GB of local storage. Its size and weight facilitates a large number of installation options.

Features

– Lightweight and compact
– Record data and forward it to other SystemX-based or third party equipment
– Collected data can be monitored as part of an Intrusion Detection System
– Data can be forwarded to Electronic Flight Bag software on a connected tablet
– Includes a customized version of the SystemX Operating System
– Integrated antenna
– 120GB for data storage

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
CAN Bus	CAN Bus RX only, ISO 11898-2:2016 and ISO 11898-5:2007 Classic CAN and CAN FD (at 2, 5, and 8 Mbps)
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)
4	Databus Receivers	CAN Bus
1	Radio Disable Discrete Inputs	ARINC-628
1	Discrete Output	ARINC-628
1	Discrete Input	ARINC-628
1	Power	28V DC

Contact us:

🌐 ccxtechnologies.com

✉ info@ccxtechnologies.com

📞 +1 (613) 695-9434

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