

MODULAR ACQUISITION UNIT (MAU)



Expansion of the MAU capabilities includes the following modules:

- Expanded Data Acquisition with ARINC 717 and 429 output
 - ARINC 717, ARINC 429 and MIL-STD-1553 inputs
 - Analog/Discrete inputs
- Pneumatic (Pitot-Static)
- Quick Access Recorder (QAR)
- GPS Splitter & Receiver Unit
- Emergency Locator Transmitter
- Wireless Data Transfer
- Available 4.3-inch EMI-shielded touch screen LCD with optional NVG Class A capability

Capabilities

- Lightweight and compact
- Modular hardware and software design
- Software-defined data acquisition
- Safety critical soft-core processor for customer loadable analysis software
- Internal ambient temperature sensor
- Aircraft-specific configuration
- Data output via ARINC 717 and 429
- Flange mount in any attitude
- Qualified to DO-160G and MIL-STD-810F / 461F / 704F
- Internal, non-volatile memory

Technical Specification

Type	Description
Inputs (Up to 24 bit with 2 megasamples/second per channel)	ARINC 717, ARINC 429, MIL-STD-1553 Analogs, Discretes, Synchros, LVDT Remote Data Concentrator (RDC)
Outputs	ARINC 429, ARINC 717
Additional Capabilities	<ul style="list-style-type: none">- Pneumatic (Pitot-Static)- Quick Access Recorder (QAR)- GPS receiver- Emergency locator transmitter- Wireless data transfer- 115 VAC, 400 Hz power- Available 4.3-inch EMI-shielded touch screen LCD with optional NVG Class A capability- Internal, non-volatile memory (up to 64 GB)
Physical	Dimensions (inches): 1.4 in. H (min) x 3.9 in. D x 4.6 in. W Dimensions (millimeters): 35mm H (min) x 100mm D x 115mm W Weight: 1.5 lb. nom.
Power	Input Power: 28 VDC Consumption: 5 W
Main Connector	MIL-C-38999 Series II, 66-pin
Environmental	(D0-160G & MIL-STD-810F / 461F / 704F) Operating Temperature: -55 °C to 70 °C Non-operating Temperature: -55 °C to 85 °C Humidity: 100% Operational Altitude: 55,000 ft. Operational Shock: 20 g Vibration: 14 g EMI/EMC: DO-160G, MIL-STD-461F / 704F Reliability: > 12,000 operating

Feel free to contact us at contact@vibratech.fr for more details