

# AIRCRAFT PERSONALITY MODULE

The Aircraft Personality Module (APM) series 400-900-XX is a low cost, hermetically sealed configuration module intended to simplify configuration management and related logistics of acquisition and signal conversion systems by decoupling installation and application specific configuration from the host line replaceable unit (LRU).

Traditional acquisition or signal conversion systems with a multitude of independent LRUs would require separate configuration loads and part numbers for each LRU – potentially adding significant inventory and spares burden.

The APM is intended to be permanently installed within the aircraft wiring harness and to work in conjunction with any of the Adaptive Aerospace acquisition and signal conversion product lines (e.g. MAU or RDC) to allow a single common and generic host LRU to be configured automatically.

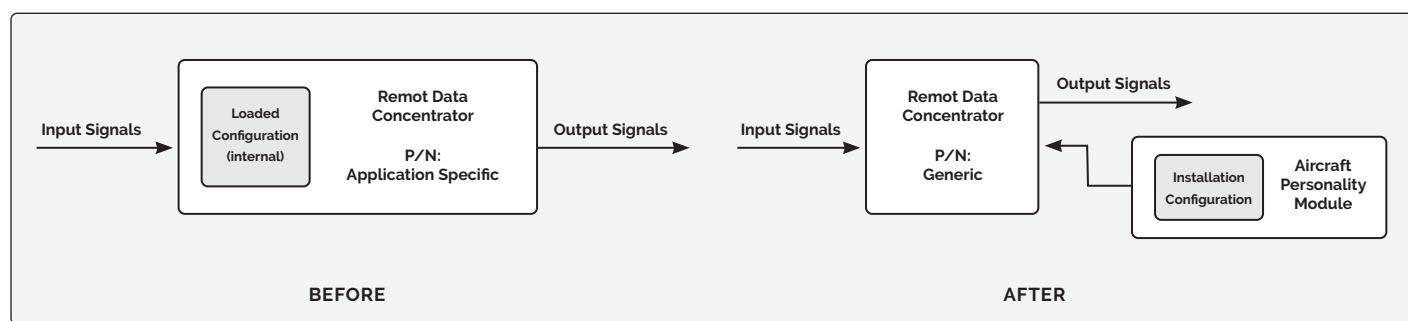
A single integral two wire twisted pair cable is used to both power the APM from the host LRU as well as for transmission of data.

Memory sizes range from 8 to 128 kilobytes of redundant and ECC protected configuration data.

APM units can be supplied pre-configured with a customer or vendor allocated part number, or alternatively field loaded during installation with low cost field programming kits.



<b>Diameter</b>	10mm (0.4")
<b>Length</b>	44mm (1.75") plus 280mm (11") attached wiring
<b>Weight</b>	Less than 50 grams (< 2 oz)
<b>Mounting Type</b>	Laced as part of aircraft harness
<b>Construction</b>	Stainless Steel AMS 5513, hermetically sealed (potted)
<b>Finish</b>	Passivated (QQ-P-35)
<b>Power supply input</b>	28 VDC nominal, 10 to 80 VDC, DO-160 CAT Z
<b>Power supply consumption</b>	Maximum 1 watt
<b>Input Connector</b>	Nil (pre-supplied with crimped 22D pin contacts at end of M27500ML2To8 cable)
<b>Operating Temp. (operating)</b>	-55 to +71 degrees Celcius
<b>Operating Temp. (non-operating)</b>	-55 to +85 degrees Celcius
<b>Operating Altitude</b>	Up to 55,000 ft
<b>Environmental Qualification</b>	RTCA DO-160G
<b>Design Assurance</b>	RTCA DO-254 and DO-178C (as applicable)
<b>Production Approvals</b>	FAA PMA (where PMA assist applies), otherwise Certificate of Conformance



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ISO9001 & AS9100D Certified

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