



700+

legacy PC-12s in
service worldwide*

70%+

of them in the
United States*

* Duncan Aviation, "Addressing LCR-92/93 AHRS
Obsolescence in Legacy PC-12 Aircraft"



FREEDOM 1 PACKAGE • PC12 45/47

KEEP YOUR PC-12 FLYING, REPLACE OBSOLETE AHRS WITH FREEDOM 1

Freedom 1 is Archangel's FAA-approved STC for the Pilatus PC12 45/47. It replaces the aging LCR-92 AHRS with a reliable, solid-state ADAHRS/AHRS and almost no wiring changes.

WHAT STAYS IN THE AIRPLANE

SAME TRAYS

Freedom 1 mounts on the same trays the LCR-92 uses.

SAME CONNECTORS

Adapter harnesses mate to the LCR-92 connectors already in the aircraft.

SAME WIRING

Our MSU reuses the existing flux valve wires and mounting.

WHY NOW

LITEF DISCONTINUED THE SUPPORT FOR LCR-92. THE FLEET STILL FLIES.

The LCR-92 served PC-12 operators for decades, but LITEF has now discontinued the support for both. Repair support for the legacy units is shrinking and cost is rising. The options that remain are expensive and slow. That adds downtime for the aircraft.

THE FREEDOM 1 PACKAGE • FAA STC SA12452AT

WHAT'S IN THE PACKAGE

AHR150A-1 ADAHRS	TSO-C4c, -C5f, -C6e, -C88b, -C106 ETSO equivalents • DO-178B Level A software	3.1 lb (1.4 kg)	QTY 1
AHR75 AHRS	TSO-C201 DO-178C Level A software	2.2 lb (1.0 kg)	QTY 1
AFC001AC D/A converter	TSO-C4c, -C5f (incomplete) DO-178C Level A software	2.2 lb (1.0 kg)	QTY 2

Also included: 2 MSUs, which reuse the existing flux valve wiring and mounting, and installation kits (adapter harness and mounting plates).

Archangel products fly under four type certificates, fixed and rotary wing. The AHR75 is used on U.S. Air Force surveillance aircraft.

FOR AVIONICS DEALERS

A SHORTER DOWNTIME FOR YOUR CUSTOMER.

For PC-12 owners, Freedom 1 is a lower-cost alternative to a major flight deck upgrade. For your shop, it is a short install that stays close to the existing wiring.

UNDER A WEEK

Most installations finish in under a week.

FLIGHT TESTED

Performs like or better than the LCR-92/93 in flight testing.

LOW UPKEEP

No periodic maintenance is required.

ROOM TO GROW

RVSM-capable air data and ARINC 429 outputs can support future upgrades.