

Honeywell F-16 CADC/UCADC Transition to ACADC

The new ACADC is designed with next generation technology and uses high stability silicon based pressure transducers for higher MTBF.

Old Technology

Central Air Data Computer (CADC)

(PN: 4025116-905, 4025116-907)

- Built in 1980s
- 40 year old technology
- Approximately 4,000 CADC delivered to date



Upgraded Central Air Data Computer (UCADC)

(PN: 8518930-901)

- Built in 1990s
- 25 year old technology
- Approximately 900 UCADC delivered to date



New Technology

Advanced Central Air Data Computer (ACADC)

(PN: 62000030-903) (NSN: 6610-01-621-9255) (LM PN: 16VC045-1)



ACADC Benefits:

- New CADC needed to solve known issues
- ACADC is in Production for F-16's
- Flight Tested and Approved
- Significant Cost Reduction Over CADC/UCADC
- Listed in F-16 IPB TO's
- Uses existing testing equipment
- 4x better MTBF
- Solves obsolescence issues

CADC & UCADC Critical Issues:

- Long Term Sustainment Issues for CADC and UCADC
- Pressure Transducer Unsupportable
- Wire Wrap Mother Boards Failing
- Obsolete and Out of Production
- BER Rates Going Up

Aero Precision is Honeywell's Preferred Supplier F-16 Advanced Central Air Data Computer (ACADC)



May 15, 2017

Aero Precision
201 Lindbergh Ave
Livermore, CA 94551
Attention: Christina Heaps

Subject: Honeywell/Aero Precision Partner Agreement ACADC (Advanced Central Air Data Computer)

This letter is intended to provide a quick reference guide on Honeywell upgrade and spares paths for military and government operators of the Honeywell F-16 Central Air Data Computer system. Honeywell has partnered with AeroPrecision as stocking distributor for the F-16 Advanced Central Air Data Computer.

F-16 Central Air Data Computer

The F-16 Central Air Data Computer (CADC) part number 4025116-905/907 is the first generation Central Air Data Computer for the F-16 and standard on all F-16s produced through the early 1990's. Approximately 4000 CADCs were produced. The CADC became obsolete and has been out of production for app. 25 years and consequently becoming unsupported. Replacement program for the CADC was initiated 1991.

F-16 Upgraded Central Air Data Computer

The Upgraded CADC (UCADC) part number 8518930-901 is a Form, Fit, Function and Interchange (F3I) replacement for the CADC. The UCADC retained original BeCu pressure transducer package from the CADC, but consolidated 12 CCAs to just 3 CCAs. By 2006 the BeCu sensors became obsolete and new replacement program was initiated. As a result the Advanced CADC was developed.

F-16 Advanced Central Air Data Computer

The Advanced CADC (ACADC) part number 62000030-903 is a Form, Fit, Function and Interchange (F3I) replacement for the CADC and UCADC. The new ACADC is designed with next generation technology and uses high stability Silicon based pressure transducers.

For pricing information on ACADC part number 62000030-903, please contact AeroPrecision.

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Parameter	CADC	R&M Upgrade 2000 UCADC	ACADC
Vintage	1975	1992	2010
MTBF	600 hours (66-1 data)	9,000 hours (predicted)	>36,500 hours (pred.)
CCA Count	12	3	2
Program Memory (ROM)	3K words	32K x 16	128K x 32
RAM Memory	16 words	8K words	64K x 32