



The CARA CV-3807 SDC provides a MIL-STD-1553B interface as well as multiple discrete interfaces used on the F-16 (all), C-17 (all), MC-130H, AC-130U, C-130 AMP and other aircraft. The legacy F-16 SDC configurations were originally fielded in the late 1980s with C-17, MC-130E, MC-130H, AC-130U, C-130 AMP and other aircraft following in the early 1990s to present. The legacy F-16 SDCs are fielded in US, FMS and Foreign aircraft. NavCom Defense Electronics, Inc. (the CARA Receiver-Transmitter OEM), under contract with the USAF, developed a Form-Fit-Function F<sup>3</sup> replacement for the legacy F-16 SDC to improve safety, correct several MIL-STD-1553B protocol deficiencies and increase reliability.

The new F<sup>3</sup> CV-3807, MIL-STD-1553 Signal Data Converter (SDC)

**NSN 5895-01-567-7326**

**NavCom Part Number 8010000806**

is the fully qualified, "Preferred Item" replacement for the following legacy F-16 SDC:

NSN: 5895-01-230-1284  
NSN: 5895-01-259-2564  
NSN: 5895-01-445-1432

## BENEFITS

### Improved Safety and Reduced O&M Cost

Eliminates potential for data freeze if a power drop-out should occur (could occur during in-flight emergency power switching or during ground APU check).

Eliminates potential for bus conflict due to MIL-STD-1553B protocol deficiencies in the legacy SDC. These protocol deficiencies may cause costly high Can-Not-Duplicate (CND) failure rates for the CARA system due to flagged MFL003 on the F-16.

Higher Reliability-Predicted MTBF of 46,530 hrs for the new SDC vs. approximately 1,500 MTBR for the legacy SDC.



# CARA

SIGNAL DATA CONVERTER

AN/APN-232 Combined Altitude Radar Altimeter (CARA)  
CV-3807, MIL-STD-1553 Signal Data Converter (SDC)  
NSN: 5895-01-567-7326  
NavCom Part Number: 8010000806

## F<sup>3</sup> SPECIFICATIONS

### SIZE

9.48" x 6.30" x 0.82" max  
24.08 cm x 16.00 cm x 2.08 cm max

### WEIGHT

1.9 pounds

### POWER

Provided by the CARA Receiver  
Transmitter

### RELIABILITY (MTBF)

46,530 hours Predicted

### COOLING

No forced-air required

### ENVIRONMENTAL

MIL-E-5400 Class 1 & 2

### ACCELERATION

15g ultimate  
9g limit

### SHOCK

20g  
40g crash safety

### TESTABILITY

LRU (Line Replaceable Unit)  
failure via data bus

### INTERFACE

Identical to legacy SDC

### EMI

MIL-STD-461

### DMS

CARA is sustainable for the  
life of the airframes on which  
it is installed or planned to be  
installed.



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ISO 9001:2008 AND  
AS9100 REV.C CERTIFIED