



GE Aerospace

# 2584 MCDU

## Multi-Function Control Display Unit

Providing a control display unit interface to flight management and other avionics subsystems

GE's 2584 MCDU series is designed for high utility and broad functionality to act as an interface unit to support various aircraft applications for both military and civil applications. For over 40 years, GE has designed, developed, and integrated MCDU Display Units for various aircraft around the world. It is standard production on the Boeing 737, KC-46A Pegasus, and P-8A Poseidon. 2584 MCDU provides broad utility as a control display unit for flight management systems, ACARS, flight recorders, and SATCOM.

It communicates using ARINC 739 protocols over an ARINC 429 bus. It can also provide backup radio tuning, EFIS control, and/or backup navigation with GPS or inertial reference systems. Its software can be updated via a ARINC 615 data loader and features a LCD display compatible with graphical interface growth capability. A multi-touch touch screen version is under development to support a flexible graphical user interface (GUI), increase reliability, and reduce pilot workload.

### Features

- Full color LCD maximizes visual presentations
- Communication using standard interfaces: ARINC 739, ARINC 615, ARINC 429 and RS-422
- DO-178, DO-254 & DO-160 certified
- Spare processing to facilitate incorporation of added functions
- On-aircraft software upload
- Flexible, easy to program, navigation interfaces
- Proven designs with over 10,000 units fielded
- Forced air or passive convection cooling
- Communicates with multiple Flight Management Computers and additional ports for communications with other aircraft subsystem
- ARINC 739/429 compatible
- Highly reliable, compact design
- Designed for ease of growth to accommodate new features
- Alternate backup navigation



# Model Comparison

Version	Model 2584A6	Model 2584A7	Model 2584A8	Model 2584D1	Model 2584F1
Part Number	174101-01-03	174101-02-03	174101-03-03	187286-001	187588-001
Characteristic	CDU	MCDU	FANS CDU	Tanker MCDU	Multi-Mission CDU
LCD type	Full Color				
Reverse video and shading	Yes				
Brightness	95 FL				
Resolution	648 × 532 color elements				
NVIS compliant	•				
Text count	14 rows of 24 characters				
Active display size	3.81" W x 2.13" H				
Automatic brightness control	Yes				
On-aircraft software loading	Yes				
ARINC 739 generic user ports		5	5	8	8
FANS keyboard (ATC key)	• • •				
Weight	9-10 lbs.				
Unit color	Grey	Grey	Grey	Brown	Grey
Power	115VAC 400 Hz				
Cooling	Drawn air or blown air				
Environmental standard	DO-160				
System conformance	DO-178 and DO-254				
Backup navigation	GPS & IRS				
Backup radio tuning	• •				
EFIS output & range control	•				
Zeroize and EMCON control	•				

## Refresh Capabilities

- Low SWAP-C
- A/C interfaces: ARINC-429, Ethernet, RS-232/422, discrete IO and video in & out (A818, SDI or other).
- Large touchscreen display for flexible GUI



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