

# ED49

## DIGITAL FLIGHT DATA ACQUISITION & MANAGEMENT UNIT



- > DFDAU/ACMS/QAR FOR BOEING 737 FAMILY
- > WIRELESS DATA TRANSFER
- > TROUBLESHOOTING
- > AIRCRAFT CONDITION MONITORING
- > ENGINE TREND MONITORING
- > CFM56 SERVICES CAPABILITY
- > COMPATIBLE WITH BOEING AHM



# ED49

## Digital flight data acquisition & management unit

**Dedicated to the B737 family, the ED49 DFDAMU is a brand new generation of aircraft condition monitoring system (ACMS).**

Highly reconfigurable, the ED49 meets the aircraft operators and MROs' needs. In addition to all the mandatory flight data acquisition, the ACMS provides troubleshooting for system fault conditions such as electrical power, pitot heater, pneumatic system, engine trim failures, or programming of any CFM56 services around fuel saving and prediction of unscheduled maintenance.

Fully exchangeable with previous ED47 unit, the ED49 can be used either as original equipment or mid-life upgrade of any Boeing 737 family's ACMS.

ACMS traditional uses:

### • Engine & aircraft trending condition monitoring

- Take-off
- Cruise
- APU
- Airplane performance

### • Engine exceedance monitoring

- Overspeed / Overtemp
- Vibrations

### • Airframe structural exceedance monitoring

- Hard landing

Other uses:

- CFM56 services capability
- Weather reporting
- QAR continuous data recording
- BITE monitoring
- Sensor failure detection

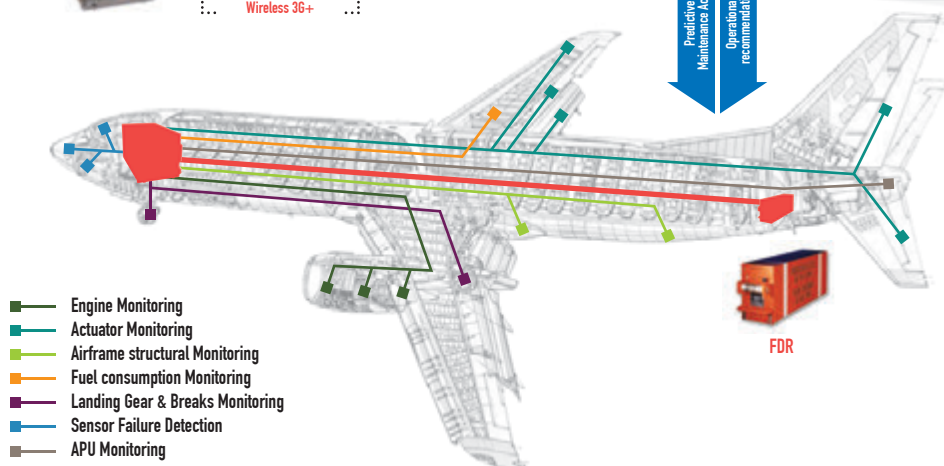
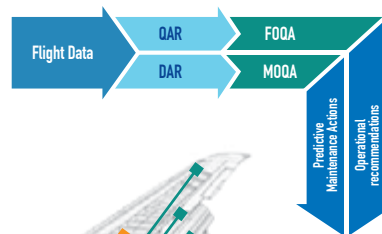
DFDAMU (ED49)  
WEFA Ready



PCMCIA Card



Wireless 3G+



### Wireless ready:

- WEFA\* Plug & Play capability
- Worldwide 3G Connection
- 100 % Data Transfer

\* Wireless Extension For ACMS (WEFA)

### Key DFDAMU features

- Buyer Furnished Equipment (BFE) for B737-600/-700/-800/-900 & BBJ
- Dimensions: 6 MCU
- Weight: < 6.5 Kg
- Power supply: 115V - 400Hz
- Two independent processors
- Data acquisition: per latest Boeing specification D226A101-rev F
- FDR output: up to 1024 words/sec
- Fully compliant with latest FAR121.344 amendment 338
- Up to 10 different FDR data frames
- Quick Access Recorder: PCMCIA & SD cards

### Key ACMS features

- Authorize any CFM56 services
- Compatible with Boeing Airplane Health Management
- Real time ACMS monitoring & reporting
- Comprehensive ACMS reprogramming for customized detections, computing & recording
- Communication protocols with ACARS, MCDU, Printer, ADL/PDL & Ethernet bus

### ED49 vs ED47 characteristic improvements

- Weight reduction: from 9 to 6.5 Kg
- Power Consumption reduction: from 70 to 50 Watts
- 10 times Processing Power increase
- 20% more available I/Os
- No more batteries for an improved reliability and maintenance

PUT YOUR FLIGHT DATA TO WORK

**SAGEM**

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