Technical Specification
SAGEM PFD

GENERAL OVERVIEW

The SAGEM Primary Flight Display (PFD) provides all the flight information necessary to operate the aircraft in VFR and IFR flight conditions, including attitude, altitude, airspeed, and compass data.

Optional interfaces to existing or new systems allow display of engine information and/or navigation data such as GPS, VOR, LOC, ILS, and Marker Beacon Signals.

ASSOCIATED HARDWARE

SAGEM ICDS-10 Display

8.00″ W × 10.75″ H × 2.75″ D (20.96 × 29.21 × 8.92 cm); 10.4″ (26.4 cm) diagonal viewing area; 6.1 lb (2.76 kg); FAA TSOs: C113, C8d Type C, C2d Type C, C10b Type II, C43c Class IIIa, C44b, C47; RTCA/DO-160D Change 1, 2, & 3; RTCA/DO-178 Level B; Environmental Qualification: [B2]BAB[RG]XXXXXXZZAZZWM[XXE3]XXA

SAGEM ICDS-8 Display

6.35″ W × 8.88″ H × 2.75″ D (16.13 × 22.55 × 8.92 cm); 8.4″ (21.3 cm) diagonal viewing area; 3.9 lb (1.77 kg); FAA TSOs: C113, C8d Type C, C2d Type C, C10b Type II, C43c Class IIIa, C44b, C47; RTCA/DO-160D Change 1, 2, & 3; RTCA/DO-178 Level B; Environmental Qualification: [F2]BAB[RG]XXXXXXZ[A()B]A[A()B]ZWM[XXE3]XXA

PFD35 Air and Navigation Data Acquisition Unit

FAA TSOs: C113, Cd2 Type B, C8d Type B, C10b Type II; RTCA/DO-160D Change 1, 2, & 3; DO-178B Level B; Environmental Qualification: [F2]BAB[RG]XXXXXXZ[A()B]A[A()B]zyl[XXE2]XXA

EMM-35H Engine Monitoring Module

FAA TSOs: C113, C47, C44b, C43c Class IIIa; RTCA/DO-160D Change 1, 2, & 3; DO-178B Level B; Prior installation under STEC SA 02165AK; Environmental Qualification: [C1]BAB[RG]XXXXXXZ[A()B]A[A()B]ZTL[XXE3]XXA

AHRS Sensor (Crossbow GA500)

FAA TSOs: C4c, C6d; RTCA/DO-160D; Environmental Qualification: C4BBB[(SM)(U)XWXXXXZBABCWAM3G33XAA

INTERFACES AND COMPATIBILITY

Video input (composite) NTSC/PAL *(optional)*

NVG (night vision goggles) compatible *(optional)*

GPS RS-232 (ARNAV Star 5000, Garmin 430/530, GNS 480, others)

NAV Source (Garmin 430/530, GNS 480, KX 165, KNS 80/81, Collins, others)

ADF (KR 87, Collins, others)

ARINC 429 (Garmin VOR/ILS, GPS; Honeywell EPIC, others)

Discrete inputs options include pilot in command, PFD show engines, PFD/MFD mode, maintenance mode, others

Discrete outputs include gauge in caution range, latched exceedance, primary engine page not selected, others

Other interfaces and applications, not listed, may be compatible. Contact Sagem Avionics, Inc. for details.

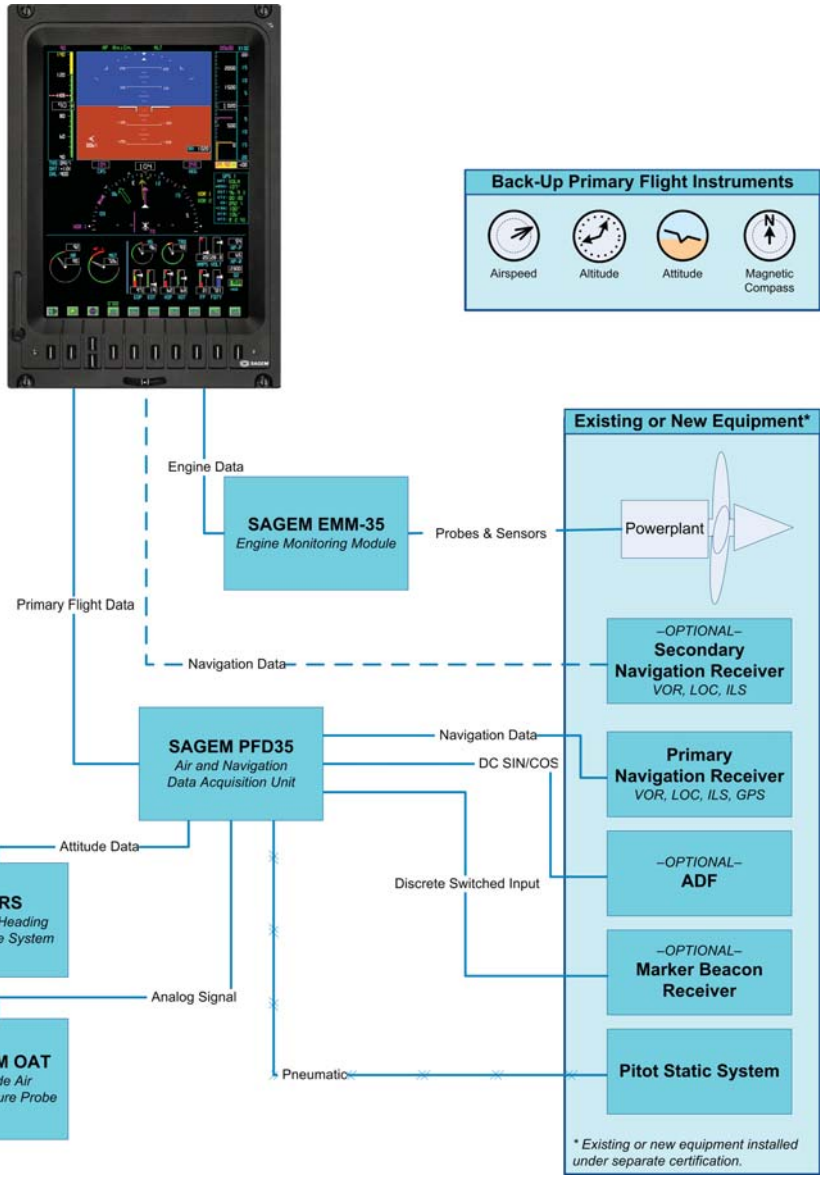
NOTES

For safety reasons, operation of the PFD must be learned on the ground.

For maximum versatility, the PFD modes of operation and configuration are factory-set for the specific aircraft.

The SAGEM PFD can be extended to include optional information such as engine monitoring.

SAMPLE ARCHITECTURE – PFD With Engines



BEFORE – With Steam Gauges

AFTER – Glass Cockpit

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TS-0500-PFD Rev –