



Astronautics Corporation of America

**6" x 8" EFI
Fighter/
Trainer**

ELECTRONIC FLIGHT INSTRUMENT (EFI)

The 6" x 8" Electronic Flight Instrument (EFI) family of displays are direct replacements for electromechanical HSI's, ADI's, Altimeters, Air Speed Indicators, Flight Mode Annunciators, and other indicators for aircraft applications. The EFI can function as a Primary Flight and Navigation/Surveillance display with several functional overlays. Designed around a portrait mode XGA 1024x768 Active Matrix Liquid Crystal Display (AMLCD). This display is capable of receiving and processing data from FMS/GPS, INS/AHRS, Autopilots, Directional Gyros, Air Data Computers, Altimeters, TCAS/ADS-B Systems, and Navigation radios (VOR, DME, ADF). Engine, Terrain and Color Weather Radar as available options. The EFI also has cross-talk (RS-422), ARINC-429, ARINC-453, analog, synchro, discrete, and differential resolver interface capabilities. This EFI is TSO certified including DO-178B Level A, DO-160D, and DO-254.



Astronautics Electronic Flight Instrument (EFI) features include:

- Internal processing and graphics generation
- Active Matrix Color Liquid Crystal Display (AMLCD)
- Sunlight readable
- Selectable to function as ADI, HSI, Altimeter, Air Speed Indicator, Flight Mode Annunciator, MAP, TCAS, CDTI/ADS-B
- Bezel controls
- Modular, rugged construction
- Brightness control
- Two bearing pointers (configurable)
- Full reversionary/redundancy capability when used as system
- Automatic configuration ID available



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This sheet is for reference only, not as a basis for specifications..

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Printed in USA 0100

ELECTRONIC FLIGHT INSTRUMENT (EFI)

OPTICAL SPECIFICATIONS	
Useable Display Area	6.2" x 8.3"
Pixel Resolution	1024 x 768 (XGA)
Display Luminance	.05 fL to 170 fL (optional to 200 FL)
Contrast Ratio	>5:1 in 10,000 Foot Candle Ambient
Viewing Angle	80° FOV Cone
Colors	256 Shades of Gray

INTERFACE SPECIFICATIONS	
Typical Interfaces Available HSI/ADI Interface, FMS, Altimeter, Flight Mode Annunciator, Air Data Computer, Radios, GPS, INS/AHRS, CWR, EGPWS, Directional Gyro, ADSB	ARINC-429/702 Channels ARINC-708/453 Serial Channel (x2 optional) Analog, Discrete Analog, Synchro (Optional) RS-422 Configuration Strapping Video (Optional)

MECHANICAL SPECIFICATIONS	
Envelope	10.3" x 7.2" x 6.5" D
Weight	<15.0 Pounds

POWER SPECIFICATIONS	
Power	28 V dc 56 Watts Power Consumption (Avg) (Without heaters)

RELIABILITY/ MAINTAINABILITY	
Built-in Test (BIT)	Automatic Fault Monitoring
Reliability	15,000 hours MTBF

ENVIRONMENTAL SPECIFICATIONS	
Temperature	-40°C to +55°C Operating +71°C Intermittent Operation -55° to +85° Storage
EMI	200 v/m HIRF
RTCA	DO-160D

QUALIFICATION	
Certification	TSO-C113
Display Elements	TSO-C119a, TSO-C4c, TSO-C63c, TSO-C6d
Software	DO178B Level A

**FOR MORE INFORMATION ON THIS OR ANY OF OUR OTHER PRODUCTS/SYSTEMS PLEASE CONTACT:
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