

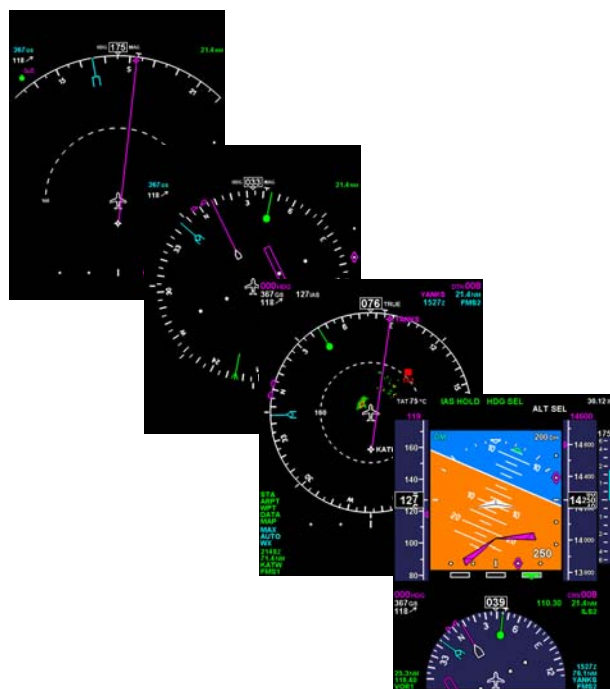


**Astronautics** Corporation of America

6" x 8" EFI

## 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 or Navigation/Surveillance display with several functional overlays. Designed around a portrait mode XGA/1024x768 Active Matrix Liquid Crystal Display (AMLCD) with wide field of view. This display is capable of receiving and processing data from FMS/GPS, Enhanced Ground Proximity Warning System (EGPWS), INS/AHRS, Autopilots, Directional Gyros, Air Data Computers, Altimeters, TCAS/ADS-B Systems, radios (VOR, DME, ADF), Navigation, and Color Weather Radar (CWR). The EFI also has cross-talk (RS-422), ARINC-429, ARINC-453, analog, synchro, discrete, and differential resolver interface capabilities. This EFI has been TSO certified.



### ***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, CWR, EGPWS, MAP, TCAS, CDTI/ADS-B
- Remote control panel(s)
- 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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# 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-561 ARINC-429/702 Channels ARINC-708/453 Serial Channel (x2) Analog, Discrete ARINC-407-1 Synchro RS-422 Configuration Strapping Video (Optional)
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## MECHANICAL SPECIFICATIONS

Envelope	10.2" x 7.5" x 7.9" D
Weight	<13.0 Pounds

## POWER SPECIFICATIONS

Power	28 V dc 70 Watts Power Consumption (Avg) (Without heaters)
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## 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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 OR VISIT OUR WEBSITE [www.astronautics.com](http://www.astronautics.com)**

***A World Leader in Navigation and Display Systems since 1959***

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