

ToughWriter[®] 640

Designed for Narrow Body Aircraft
and Business Jets



The **ToughWriter[®] 640** is the very latest technology in narrow-format flight deck printing, from the industry leader, AstroNova. Incredibly compact, and half the weight of existing narrow format printers, the ToughWriter 640 is the world's smallest ARINC 740 flight deck printer. It features graphical printing, and combined with its minimal power consumption, offers the lowest size, weight, and power in the industry.

- Meets or Exceeds ARINC 740 Requirements
- 12 ARINC 429 ports
- Print weather maps, approach plates and other graphics via Ethernet
- Highly reliable, with an MTBF (Mean Time Between Failures) of 15,000 hours
- Weighs just 5.75 pounds with a full roll of paper

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CHARACTERISITC	SPECIFICATION
PRINTING	
Print Method	Direct thermal
Print Resolution	300 x 300 dots per inch
Page Description Language	PostScript® Level 3
Fonts	35 PostScript® fonts standard
PRINT SPEED	
Text	0.62 inches (16 mm) per second
Text & Graphics	Up to 0.43 inches (11 mm) per second
PHYSICAL	
Weight	5.05 lbs. (2.29 Kg) without paper 5.75 lbs. (2.60 Kg) with one roll of paper
Dimensions	5.75" W x 6.00" H x 6.50" D
ELECTRICAL	
Input Voltage	115VAC 360-800Hz Variable frequency
Idle Power	20 watts
Maximum Power	55 watts (meets or surpasses ARINC 740-1 specification)
ENVIRONMENTAL/ MECHANICAL	
Temperature (storage)	-55°C to +85°C
Temperature (operating)	-15°C to +55°C fully operational (Printing) -40°C to +70°C partially operational (Not printing)
Humidity	DO-160F, Section 6, Category B
Shock and Crash Safety	DO-160F, Section 7, Category B
Operational Vibration	DO-160F, Section 8, Category SB
Explosion Proofness	DO-160F, Section 9, Category E ENV II
Fluid Susceptibility	DO-160F, Section 11, Category F (spray test)
Fungus Resistance	DO-160F, Section 13, Category F
Magnetic Effect	DO-160F, Section 15, Category Z
Power Supply Audio Frequency Conducted Susceptibility	DO-160F, Section 18, Category Z
Induced Signal Susceptibility	DO-160F, Section 19, Category ZC
Radio Frequency Susceptibility (Radiated and Conducted)	DO-160F, Section 20, Category RR
RF Emissions	DO-160F, Section 21, Category M
ESD	DO-160F, Section 25, Category A

CHARACTERISITC	SPECIFICATION
LIGHTING	
Dimming Control	5 PWM (pulse width modulation), 5 VAC (variable), 5 VDC (variable)
FRONT PANEL SWITCHES	
Front Panel Indicators/Controls	Power/Fault Test/Abort Slew/Paper
RELIABILITY	
MTBF	>15,000 hours
MTTR	Under 30 minutes
INTERFACE OPTIONS	
ARINC 429	12 Receive, 1 Transmit
Ethernet	Optional IEEE 802.3 100BaseTX, TCP/IP, via Quadrax connector
CONNECTORS	
MIL-DTL-26482 type:	
Power / Discrete Connector	MS3124F20-41P (Amphenol P/N)
Ethernet	Quadrax Connector MS3474
PAPER	
Paper Roll	Supports 40 column flight deck printing requirements 4.25 inches (108 mm) wide
Roll Length	140 feet



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