

AIRBORNE PRINTER

ToughWriter[®] 4



The **ToughWriter[®] 4** is the fourth generation airborne printer from AstroNova, providing the ideal airborne printing solution. From its high resolution and direct thermal printing process to the fast microprocessor to the upgraded PostScript[®] 3.0 page description language, the ToughWriter 4 is used in B767, B787, A380 flight decks and the in-flight entertainment system of many wide body aircraft.

- Meets or Exceeds ARINC 744A Requirements
- High Speed, High Resolution Printing
- PostScript[®] 3.0 Compatible
- Standard ARINC 429 and 10BaseT Ethernet Ports
- Multiple Configurations Available

ToughWriter® 4 Airborne Printer

CHARACTERISTIC	SPECIFICATION
PRINTING	
Print Method	Direct thermal
Print Speed	Text: 360 lines/minute Graphics: 5 seconds per page typical, 8 seconds per page maximum. High Quality Mode: 14 seconds per page
Print Resolution	300 x 300 dots per inch
Page Descriptor Language	PostScript Level 3
Fonts	35 PostScript fonts standard; 136 font extended set optional
MICROPROCESSOR	
Processor	Power PC; 400 MHz, 64-bit (750 MIPS)
Memory	256 Mb
Supported Host Operating Systems	Windows 2000, XP, NT, Vista, Linux
PHYSICAL	
Height (Length)	9.75 inches
Width	5.75 inches
Depth	10.25 inches
Weight (with paper)	12 lbs (5.44 kg)
Cooling	Convection
INTERFACE OPTIONS	
ARINC 429	8 Receive, 1 Transmit
Ethernet	10/100BaseT Dual port option available TCP/IP DHCP Built-in-test reporting (BIT) via SNMP V1
MECHANICAL	
Connector	Various connector options are available
Mounting	Both top/bottom and side/side Dzus mounting are available
Color	A variety of front face colors are available
Paper Roll	Supports both A4 and US letter sizes (perforated and non-perforated rolls available)
Roll Length	150 feet

CHARACTERISTIC	SPECIFICATION
ELECTRICAL	
Idle Mode	25 watts
Print Mode	40 watts
Plot Mode	100 watts
Maximum	165 watts
Input Voltage Options	28 VDC 115 VAC, 400 Hz 115 VAC, 360-800 Hz
LIGHTING	
Dimming Control Options	5 VDC (pulse width modulation) 28 VDC (variable) Ethernet (TCP/IP) 5 VAC (variable)
RELIABILITY	
MTBF	>10,000 hours
MTTR	<30 minutes
Software Certification	DO-178B Design Assurance Level D
Temperature (storage)	-55°C to 85°C
Temperature (operating)	-15°C to 55°C
Other (vibration, EMI, shock, crash safety, explosion, sand & dust, fluid susceptibility, etc.)	Various configurations that meet DO-160E, MIL-STD-461E and MIL-STD-810F are available



aerospace.astronovainc.com

World Headquarters

600 East Greenwich Avenue
West Warwick, Rhode Island 02893 U.S.A.
+1 401-828-4000
Toll-Free U.S.A.: 877-867-9783
aerospace@astronovainc.com

Branch Offices

CANADA: +1 450-619-9973
Toll-Free Phone Canada only: 800-565-2216
UNITED KINGDOM: +44 1628 668836
FRANCE: +33 1 34 82 09 00
GERMANY: +49 (0) 6074-31025-00