



MPAC-10

Flat Panel Computer Meets EMI/EMC Requirements of MIL-STD-461C/D

The MPAC-10 can be used to emulate any number of serial terminals and can also be used as a PC running simple applications. On-board DiskOnChip allows program storage without rotating media – a key point for use in higher shock and vibration environments. Developed specifically for military applications, a special mesh filter and internal shielding allow the MPAC-10 to meet EMI/EMC requirements of MIL-STD- 461C/D.

Product Features

- 486-level processor board
- 10.4" VGA LCD
- Infrared touchscreen
- Panel-mount enclosure
- Built-in system keys
- 28V power supply meets Navy vessel power supply requirements

Computer
DYNAMICS

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MPAC-10 Specifications

Display

- 10.4" 640x480 color AMTFT LCD

Touchscreen

- Infrared

Processor

- 486DX-based single board computer with embedded 75 MHz CPU

Memory

- 4M RAM; 2M DiskOnChip for firmware and customer code. Larger capacities available

I/O

- PS/2 keyboard/mouse
- Serial data port: DB9 style

MTBF

- 33 Khrs (calculation done to MIL-HDBK-217F Notice 2 at 25C via Naval Sheltered Environment)

Mounting

- Panel-mount design

Humidity

- 5 - 95% non-condensing

Emulation mode

- VT320

Software

- Custom firmware provided to accept ANSI 3.6.4 formatted command strings. Some applications may require modification of this firmware to meet application requirements. We can provide this service.

Power

- 18 - 36 VDC; Fused 28 VDC typical @ 2A

Temperature

- Operating: 0° to 55°C
- Storage: -40° to 70°C

Finish

- FED-STD-595 per MIL-DTL-15090D (Navy Formula No. 111)

Weight

- 13 lbs.

Dimensions

- 13" x 10" x 2.8" (WxHxD)
330 mm x 254 mm x 71 mm

Compliance

Shock*

- Vertical: 89G, 3 ms
- Side-to-side: 32G, 14 ms
- Front-to-back: 74G, 5 ms

Vibration*

- MIL-STD-671-1 4-15 Hz on 3-axis

EMI

- MIL-STD-461C part 5: RE01 (Note: 6" fall-off), RE02, RS01 and RS03

* Note: These shock and vibration measurements were performed with the MPAC-10 mounted into a shock isolation ring. Call your Computer Dynamics Applications Engineer for more information.

Computer Dynamics Information Centers

Americas:
1 864 627 8800

Asia Pacific:
86 10 6561 1561

Europe, Middle East and Africa:
33 1 4324 6007

Additional Resources

For more information, please visit the Computer Dynamics web site at:

www.codynamics.com

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