

ProPanel® MP2030C

rugged, single-enclosure computer

- 15" display
- sunlight-viewable, night-dimmable
- versatile, easy-connect I/O
- minimal temp rise, longest available service life
- modular design for quick repair & upgrade
- expansion slots for I/O interface hardware
- Mil-S-901D Grade A
Mil-Std-461E / 167
- NEMA 4 rating



The Azonix ProPanel® MP2030C meets every test for rugged reliability and environmental resistance, but also the most important test – **mission-critical performance** in the field.

The MP2030C is in use in US aircraft carriers, frigates, and other marine applications, as well as rugged and hazardous duty in land and mobile applications. The system combines a large, clear, impact-resistant display with full operator interface and powerful Wintel PC performance.

The MP2030C employs isolated circuitry and a low-magnesium aluminum enclosure to provide high EMI/RFI immunity and preserve signal accuracy.

The unit meets the highest possible standards for shock and vibration resistance and ease of installation, use and maintenance.

ProPanel COTS computers have US Federal Stock Class Numbers for easy ordering.

Azonix engineering support teams are experienced in global, on-location support and service for application development, maintenance, or upgrade to existing systems in the field.

Azonix military computers set new standards for:

- **Display clarity** with 15" TFT, adjustable brightness for night-time running
- **Low service & ownership costs** due to reliable, sealed, single-enclosure design and extreme resistance to harsh environmental conditions, shock & vibration, and outdoor weather conditions
- **Ease of use** for operators and technicians in installing the equipment, transportation, I/O connection, programming, and integrating the unit into proprietary systems

MP2030C Applications

The MP2030C is ideal for use where full computing power is needed and a large display will assist operators in comprehension and monitoring duties.

- **Wing display** to aid in navigation & maneuvers
- **Propulsion system monitoring** and control
- **Complex monitoring and alarm** systems where multiple windows need to be displayed clearly on a large display

SPECIFICATION

Processor

Intel® Pentium M 1.7GHz Processor

Operating Systems

Win 2000, Windows XP, Win XP Embedded

LCD and Backlight

15" Active Matrix TFT color display with 1024x768 XGA resolution with night time running

Brightness

<1 to 450 NITS with auto-brightness control

LCD Protection

1/4" thick, tempered, anti-glare glass passes most severe impact test standards

User Interface

Integrated 25 key membrane keyboard with user programmable function keys

Glass-based touch screen (Optional)

Memory

1 GB to 2 GB

Hard Disk

Minimum 40GB, 2 1/2" disk drive w/ average access time of 13 ms, or an IDE PCMCIA type II solid state drive up to a size of 16 GB

Backplane

User available 2 full size ISA or 2 full size PCI or any combination of maximum of 2 ISA/PCI full size expansion slots

INPUT/OUTPUT

Power

110/230VAC, 50/60Hz

Signals

2 x RS232, USB, Ethernet 10/100MBPs and parallel port through sealed connectors on base

MIL Standards

Mil-S- 901D Grade A, Mil-Std-461E, Mil-Std-167

ENVIRONMENTAL SPECS

Rating

NEMA class 4 for entire unit

Temperature

Operational 0°C to 60°C;

Non-Operational -20 to 70°C

Humidity

Operational 10 to 95% non-condensing

Non-Operational 0 to 100%

Shock (standard mount)

Operational 2.5 G for 10 ms duration;

Non-Operational 15 G for 10 ms duration

Vibration (standard mount)

Operational: 0.25 G peak-to-peak, 10 to 500 Hz
Hard Drive Version

Non-Operational: 1 G peak-to-peak 10 to 500 Hz
Hard Drive Version

Sealing

IP66 / NEMA4 completely sealed unit with no outside air exchange

Enclosure

3/16" (4.75mm) aluminum with <3% magnesium for exceptional EMI/RFI immunity

Heat dissipation

Integral heat sink with low resistance to heat transfer

Dimensions (approx.)

16" (W) x 14" (H) x 6.5" (D)

40.5cm (W) x 35.5cm (H) x 16.5cm (D)

Weight

> 40 lb (18kg)

Mounting

Panel and Wall Mount standard, or optional Swivel Mount

Maintenance

In all mounting options, the door opens on the front and all the components are accessible.

Average replacement time for any component in the system is not more than 60 minutes.



Intelligent connectivity with Intel Inside®.

The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantee. In the interest of further technical developments, we reserve the right to make design changes.