

ProPanel[®] MP2030C

AZONIX MILITARY COMPUTERS

Mil-S-901D Grade A

Mil-Std-461E / 167

NEMA 4



- rugged, single-enclosure computer
- sunlight-viewable, night-dimmable 15" display
- versatile, easy-connect I/O
- minimal temp rise, longest available service life
- expansion slots for I/O interface hardware
- modular design for quick repair & upgrade



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 our nation's 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 & 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.

Working with military engineers and OEMs

Azonix is a unit of Crane Co., a Fortune 500 operating company with divisions that supply equipment for Army, Navy, and Aerospace applications. General Donald G. Cook (ret.) sits on the Crane Board of Directors.

ProPanel COTS computers have 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



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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**



MP2030C Specifications

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: 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" aluminum with <3% magnesium for exceptional EMI/RFI immunity
Heat dissipation:	Integral heat sink with low resistance to heat transfer
Dimensions:	16" (W) x 14" (H) x 6.5" (D) (approximately)
Weight:	>40 lb
Mounting:	Panel and Wall Mount standard, or optional Swivel Mount
Maintenance:	In all mounting options, 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



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