

APPLICATION FOCUS

► Modularity enhances options, fights obsolescence

The true cost of ownership of technology must take into account a product's life cycle, installation, maintenance, and upgrade time and cost. Since 1992 Azonix has been a leader in developing and implementing technologies that extend duty cycles and fight obsolescence in both hardware and software.



The Azonix ProPanel[®] MP2030C has been used in Project ICAN in US Navy aircraft carriers for bridge display of monitored systems, fire sensor/report/control, and engine & propulsion monitoring since 1997. This product continues to be successfully upgraded and maintained after a full decade of service. Bob Long, Project Manager of Fleet Support for DDCN, currently performing technology support for these installations, talks about the need for reliable, open system technology that is easily maintained in the field.

"Typically the life of a COTS system is 3-4 years, and the technology is often proprietary. When we upgrade we need to deal with all the interdependent technology around the product, which needs to work with the new equipment. It isn't easy mounting equipment into steel bulkheads in the limited space on aircraft carriers. Azonix has supplied us for a decade with technology that stays current and compatible, and most importantly, fits the same physical footprint, resulting in easier maintenance for ship crews and considerable savings."

"When reliability is high, we can reduce the level of redundant units on hand that we would normally carry for swapouts in critical situations. In general, COTS has been difficult for us insofar as the technology is often not an open system, and the

MTBF is not where it should be. Not so with the MP2030C, where we get the convenience of COTS and the long service life we need."

Bob adds, "It's not just an expense issue, it improves safety onboard and keeps fleets running smoothly during maneuvers, where a control systems failure could effect thousands of personnel on many vessels."

A similar ProPanel with COTS classification is used in bridge wing display on US Navy cruisers for docking guidance, refueling maneuvers, and location/azimuth monitoring. Despite years of outdoor service with exposure to extreme environments, the form, fit and function of the assets are still consistent and upgradeable.



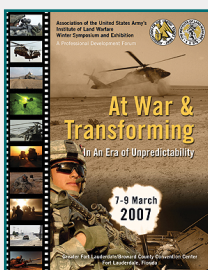
Since 1999 the MP3500C has been deployed in land use for genset monitoring and mobile base interface from truck-mounted installations.

Azonix has extensive experience in obsolescence management. Our process begins with design methodology and extends through production readiness and ongoing procurement practices in the supply chain.

The newest product line, the Nautilus[™], utilizes the same rugged, aluminum, sealed enclosures and low-heat operation, and has a modular CPU & display design that enables flexible mixing and matching and swapout of displays and CPU modules for enhanced upgrade possibilities and even lower maintenance time requirements.

Azonix continues to provide our Military Forces with superior quality products that enhance performance and safety, while reducing expenses by extending useful service life in the field.

Shows



AUSA, March 7-9, 2007, Booth #823

Broward County Convention Center, Fort Lauderdale, FL

Navy League Sea-Air-Space

April 3-5, 2007, Booth #3310 Hall C

Marriott Wardman Park, Washington, DC

For more information, please contact:

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HMI Solutions is a newsletter dedicated to the application of advanced Human Machine Interface (HMI) technology in Armed Forces applications.

HMI solutions

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AZONIX CORPORATION

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Product Expo

Comment

▶ Nautilus™ Mission Critical Computers

The new Nautilus design maximizes service life, reduces obsolescence, and provides flexibility in mounting and matching CPUs with desired display sizes.

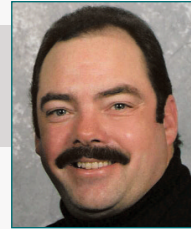
Nautilus product line key features:

- modular platform of display and computer
- MIL-S-901D Grade A / MIL-STD-461E/167 / NEMA 4
- stand-alone display or integrated with a computer
- large, high-resolution display improves interactivity
- totally sealed, low-heat design increases reliability
- console or bulkhead mounting options

Applications

Nautilus is ideal to use in applications displaying critical real-time information. Examples of such applications include:

- machinery and control system monitoring
- JP5 pump rooms
- bridge safety alarm systems
- liquid control work stations
- bridge wing displays
- damage control consoles
- navigation and mapping
- radar systems
- weapons systems



A preferred supplier since 1990

Russ Allen, DBD - Military

Azonix has been supplying products to the different Military Forces since the early 1990s.

Originally acting as a provider of high-accuracy data acquisition and control products, Azonix received an Army contract to deliver Redstone Arsenal resistive thermometers for testing new weapons.

In 1997 Azonix supplied its first industrial computer used on the aircraft carrier Ronald Reagan (CVN76) as part of the Integrated Communication and Advanced Network (ICAN) project. Working with prime integrators such as Northrop Grumman Newport News Shipbuilding, Intergraph, L3 Communications, Wesco Marine Engineering and NAVSEA, Azonix has supplied various types of rugged military computers & displays to the Department of Defense.

One of our largest contracts in Azonix history was to supply embedded computers that provided an interface to generator sets used by the U.S. Army. These computers required meeting extreme temperature ranges, from -40°C in the Alaskan slopes or in +60°C in the Iraqi desert with direct sun beaming on the display.

In 2006 Azonix established an advisory board which includes the company officers, BG Ed Harrington (ret.), Colonel Mary Fuller (ret.) and Captain Michael Patrick Tryon (ret.). Leveraging our business development network, with our broad military knowledge and with our core product, engineering and manufacturing capabilities, enable us to bring best value to our military.

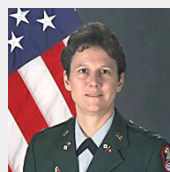
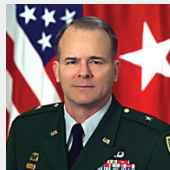
Russ Allen, Director of Business Development - Military

AZONIX NEWS & EVENTS

Military Action Committee

▶ Azonix Corporation has established an advisory board that includes the company officers, Brigadier General Edward M. Harrington, U.S. Army (Retired), Colonel Mary Fuller (US Army ret.) & Captain Michael Patrick Tryon (US Navy ret.). This team is navigating Azonix within the military space, aligning our core competency with potential applications where we bring the best value. Leveraging our business development network with our broad military knowledge and our core product, engineering and manufacturing capabilities enables us to bring best value to our military. Read more about our board members on the web @:

- www.azonix.com/industries/defense/GenEdH.html
- www.azonix.com/industries/defense/ColMaryF.html
- www.azonix.com/industries/defense/Cap_Tryon.html



Amazing Facts

- The first German serviceman killed in the war was killed by the Japanese... in China.
- Mike Farrell (Capt. B.J. Hunnicut) was the only chief actor in M*A*S*H who actually served in the military in the Korean War.
- German submarine U-120 was sunk by a malfunctioning toilet.
- The ProPanel MP2030C remained operational after being in a barge explosion simulating a torpedo hit..... and sinking to the river bottom.

tell us the fact that is **wrong** and be eligible to receive a complimentary copy of *Defending Freedom* (published by the Navy League - value under \$25)
email your entry to: quiz@azonix.com