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## New Rugged, Liquid Cooled ATR Chassis from Elma Accepts 6U VPX Boards

*Modular design enables easy size scaling, various plug-in power supplies, custom front I/O configurations*



**FREMONT, Calif., November 2011** – Elma Electronic Inc., a leading supplier of embedded products and systems solutions built on open standards-based platforms like VME, VPX, CompactPCI and ATCA, now offers a new rugged 1 ATR tall, short enclosure with independent dual liquid cooled side walls that offer significantly better cooling than conduction only and air-flow designs. Ideal for highly dense embedded systems with exceptional heat dissipation requirements, the new platform holds 6U conduction cooled boards with a 1" pitch per VITA 48.2 (REDI) and VITA 65 (OpenVPX).

Elma's new [liquid cooled chassis](#) is available with a 6U OpenVPX backplane on a 1" pitch per VITA 65 Backplane Profile BKP6-CEN07-11.2.3-n. The backplane provides seven slots, each cooled up to 100 W; one slot for storage, one for switch and five payload slots. Additional backplanes are available, including VME, VME64x, VXS, cPCI or custom backplanes. Different front I/O configurations are also possible, such as MIL-STD wiring and connectors, to meet specific application requirements.

The rugged chassis features a COTS/MOTS modular design according to ARINC 404A and is ideal for use in rugged ground mobile and harsh environment

applications due to its ability to maintain controlled temperatures and light weight construction. The modular design enables easy size scaling by using the same liquid cooled sides.

The all-aluminum chassis has electron beam welded fluid channels in the side walls that can use a variety of cooling fluids, including dielectric fluids (PAO), inhibited glycol/water solutions (PGW, EGW), kerosene, de-ionized water and salt water.

The unit offers users the choice of a fixed-mount 400 W or 500 W 6U plug-in power supply. Dimensions of the new chassis are 10.625" H x 10.12" W x 12.52" L.

This new enclosure is designed to meet shock and vibration standards per MIL-STD-810G, as well as MIL-STD-810F, MIL-STD-901D and MIL-STD-461F (CE102, CS101, CS116, RE102, RS103). It can operate at altitudes of up to 75,000 feet. Operating temperature is -55°C to +70°C and storage temperature is -62°C to +95°C.

Pricing for the new 1 ATR enclosure starts at \$30,000 including the backplane and power supply. Delivery is 12 to 14 weeks ARO.

For more information, please visit [Elma's](#) site, contact sales at [sales@elma.com](mailto:sales@elma.com), or call (510) 656-3400.

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### **About Elma Electronic Inc.**

[Elma Electronic Inc.](#) supplies the widest range of commercial, COTS and rugged electronics packaging as well as a full complement of embedded computing products and services for [an extensive variety of applications](#).

Elma's focus is to leverage proven technology based on VITA and PICMG standard architectures (i.e. VME, OpenVPX, CPCI, ATCA and MicroTCA). With the acquisition of ACT/Technico in January 2009, Elma became a leading supplier of open-standards embedded boards and [integrated sub-systems](#). Elma's Embedded Computing Products and Services, including [single board computers](#), [mass storage](#), [RAID](#), [I/O and networking solutions](#), [RTOS](#), [Linux/Windows and device drivers](#) are sold under the brand name of ACT/Technico.

Elma Electronic [manages entire projects](#) from initial system architecture to specification, design, manufacturing and test through its [worldwide production facilities and sales offices](#). The company serves the mil/aero, industrial, research, telecom, medical and commercial markets and is [certified to ISO 9001](#) and [AS9100](#).