



Crystal Group Inc. Contact:

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News Release

For Immediate Release



Hiawatha, IA (August 25th, 2009)- Crystal Group Inc., a veteran-owned small business, designer and manufacturer of rugged, commercial-off-the-shelf (COTS) custom-developed computers, displays, switches, and storage devices, today released vibration test results for their TCM1 (Tactical Computing Module).

Recently conducted vibration testing in accordance with the requirements of MIL-STD-810G showed that the TCM1 has no significant natural (resonance) frequencies below 461 Hz in the vertical axis, 720 Hz in the lateral axis, and 2000 Hz in the longitudinal axis." The lack of significant low frequency resonances is an indication of the ability of the TCM1 to survive the low frequency vibrations inherent in mobile vehicles, even though it was designed for both mobile and airborne platforms." commented Richard Ridenour, Crystal Group's Lead Compliance Engineer.

The TCM1 was tested in accordance with the requirements of MIL-STD-810G, Method 514.6, utilizing a composite profile that incorporated the Tracked Vehicle, phase V5 profile from MIL-STD-810E and the C-130J, C-17, C-5, C-135 & KC-10 aircraft profiles from MIL-STD-810G. The composite profile was a random-on-random profile extending from 5 Hz to 2000 Hz with a resultant RMS value of 7.18 g . The testing was done for duration of 60 minutes per axis, in each of the three axes.

The TCM1 was also shock tested in accordance with Method 516.6 of MIL-STD-810G. The terminal peak sawtooth pulses were 20 g, 11 msec for the Functional Shock test and 40 g, 11 msec for the Crash Hazard shock test.

In environments where performance, ruggedness, compact size, and reliability are imperative, the TCM1 is an ideal fit. The TCM1 offers extended capability with a temperature range of -40°C up to 65°C (-40°F to 141°F) and a 12V/24V DC power option that is MIL-STD-461, MIL-STD-704 and MILSTD-1275 compliant. The TCM1 is available with the Intel® Core™ 2 Duo/ Core Solo processor. This short depth (12.75 inches) module features up to two rotational or solid state 2.5" SATA II HDDs and an expansion option of one mini PCIe slot and one mini PCI slot. The TCM1 was designed for embedded shipboard, airborne, and land-based applications.

As always, each Crystal product comes with a standard three-year warranty. On-site, next day and extended warranties are available. Configuration Management is also available upon request.

Crystal Group Inc. is uniquely postured as one company with three business competencies. As a server/systems manufacturer, systems integrator and custom design team, Crystal Group is well positioned to quickly and cost-effectively address all aspects of their customers' projects. This three-tier approach is unique in the industry and allows Crystal Group to excel at the delivery of turn-key systems

tailored to their customers' specific needs. For more information please visit our website (www.crystalrugged.com) or request that a Crystal Business Development Manager give you a call.

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About Crystal Group Inc.

Crystal Group Inc, a veteran-owned small business located in Hiawatha, Iowa, USA, designs and manufactures deployment-ready, rugged servers, switches, storage devices and displays that fit mission critical applications. For over 22 years Crystal Group has been developing rugged solutions for our customers' most challenging needs. Crystal excels at providing commercial-off-the-shelf (COTS) and custom designed computer systems tailored to specification. All products are designed and built to meet and exceed MIL-STDs 810F, 167-1, 461E and MIL-S-901D.