

- **Product Feature:** KM6-HD Environmental Test
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May 2014

Verotec Limited

Unit B4
Millbrook Close
Chandlers Ford Industrial Estate
Eastleigh
Hampshire, UK
SO53 4BZ



www.verotec.co.uk

Latest News

Last month we were exhibiting at the Real-Time & Embedded Computing Conference & Exhibition in Boston, MA (USA).

The RTECC show is dedicated to intelligent systems and embedded computing and on show from Verotec was our latest VPX development chassis, CPCI backplanes & intelligent fan trays.



Pictured on the stand is Marc Harvey from Verotec in New Hampshire who reported that the show had been well attended.



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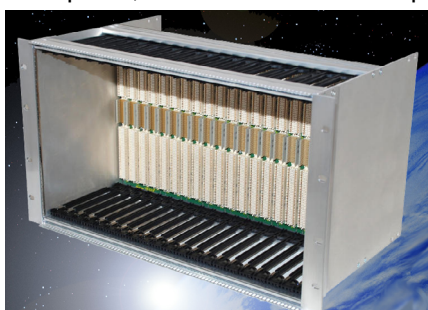
Welcome

This is the 29th edition of TecNews, the newsletter from Verotec. In this issue we feature the latest environmental test performed on our KM6-HD range, and take a look at a custom fan tray we produced for a customer.

Product Feature: KM6-HD Environmental Test

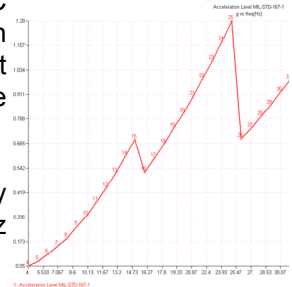
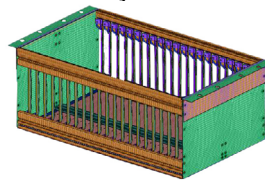
Although designed to meet MIL-STD-167, our KM6-HD range has not been officially approved – until now that is.

The subracks are designed primarily for rugged applications where resistance to shock and vibration is required, such as industrial computing & embedded systems for the military and railway markets.



Key features include positive guide retention, heavy two-screw fixing tiebars, 3mm thick side plates / rack angles and a conductive finish throughout.

The recently completed testing was undertaken by UKAS-accredited TRaC Global, a leading test and certification laboratory authorised to provide product compliance – their full report is available through Verotec.



MIL-STD-167 is approved for use by a number of US defence departments (mainly naval) for shipboard equipment and concentrates on vibration frequencies of 4Hz to 33Hz at amplitudes of up to 0.03 inches for up to 2 hours duration.

Recent Projects: Custom Fan Tray

Verotec has recently won a project to design and develop custom fan units for a large multinational company that supports computer systems in power stations.

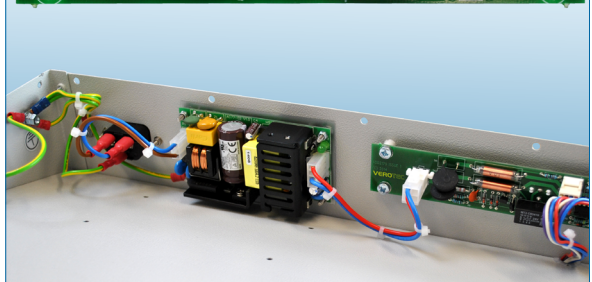
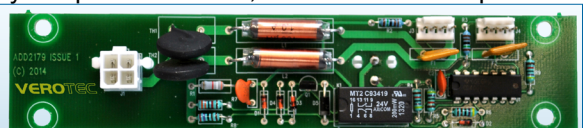


Following an initial briefing and review of the customer's specification, which included specific airflow requirements, a need for variable input voltages and fan failure detection, Verotec was contracted to create a solution.

The project was controlled with two distinct elements. Firstly the mechanical solution was created using Verotec's 3D modelling software. The design included a 3U fan housing which was designed to complement the performance of the fans, a new front cowl to allow the fitment of new disposable filters and an internal chassis to take the fan controller and power supply. In parallel to this, a new controller pcb was

designed that allowed Verotec to fit an existing 60watt power supply that gave a volt free contact which could be used by the customer to indicate any fan failure. Initial prototypes have now been delivered and subject to testing on site with the customer, the next stage of the project will be to undertake compliance testing and CE marking prior to manufacture.

Verotec provides a highly flexible suite of resources through its **TecServ+** service. These include enclosure design, manufacture and integration. Complementary capabilities include project management, compliance testing and logistics.



UK ☎ +44 (0)2380-246900
sales@verotec.co.uk

US ☎ +1-603-821-9921
sales@verotec.us

FR ☎ +33 (0)3-444-514-60
sales@verotec.fr