

Welcome:

This is the 14th edition of TecNews, the newsletter from Verotec.

In this issue we are featuring Verotec's new VPX TecSYS chassis, we talk about a recent project for EDF Energy using a special Verotec case and also provide details of a recent investment in the latest news section.

Latest News:

This month saw the completion of Verotec's new machine shop which is aimed at improving our service & efficiency. Comprising a machining centre, high-speed saw, pillar drill and fly-press, standard volume-production lines (and therefore expensive set-ups) can be bypassed for small batch runs & modification work. A variety of standard and custom tools & jigs currently being produced will give Verotec the capability to manufacture a wide range of mechanical components.

If you would like to know more then please contact Verotec's sales team on 02380 246900 or e-mail: sales@verotec.co.uk

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Headlines

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- **Product Feature: VPX TecSYS Chassis**
- **Recent Projects: Special Verotec Case - EDF Energy**



Product Feature: VPX TecSYS Chassis

The VPX specification offers a whole new level of performance. However with no legacy systems around, developers need a platform to start working from - the **TecSYS** chassis offers a cost effective and flexible entry-level solution.

The system is fitted with a 5 slot, VITA 46.0 compliant backplane and configured with a VITA 46.4 Full mesh X4 PCI Express topology interconnect, removing the need for a dedicated switch. Slot spacing is on 5HP (25.4mm) allowing other VPX permitted widths of daughter board to be accommodated. System management interfaces (I2C) are also provided to the user, as well as a JTAG access connector on slot1.

The system is fitted with an auto-ranging 300W power supply with active power factor correction. The module is a pluggable type, featuring two separate converters; this allows the supply to provide 5V at 30A and 3.3V at 40A simultaneously.

Cooling is provided by two DC fans installed on a tray below the cardframe. A pressurised plenum ensures airflow to the main card area, the transition area and to the PSU even with the top cover removed or with the rear transition area exposed.

The mechanics are based around Verotec's **Diplomat & KM6-RF** standard products ensuring IEEE 1101.10/11 compliance and a high level of EMC integrity. An ESD bonding point is provided on the front panel to aid in the safe insertion or extraction of boards, while a switched, fused & filtered IEC power inlet controls conducted noise to EN55022 level B.



Recent Projects: Special Verotec Case – EDF Energy

Verotec has shipped the first batch of 35 x special **Verotec** cases, destined for EDF Energy in France. The customer required a 4U, 19", 500mm deep enclosure to house computer equipment in an industrial environment. The cases had to be stylish yet robust, rated to IP32 and provide a good level of EMC. Also required was a compatible

vent pattern for cooling, a lockable, hinged transparent door and custom rear panel for cable access. Our standard **Verotec** product was proposed to the customer as a key feature in its design is the option of fitting foam gaskets and Beryllium-Copper finger strips in specific areas to improve IP and EMC performance. A full working 3D model of the finished design was submitted, to the customer, for approval before manufacturing commenced.

