

# Product showcase

## Compact chassis

A full ATR (air transport rack) short VME chassis from **Aitech Defense Systems** is both lightweight and compact, yet can withstand a variety of harsh mechanical, climatic, chemical, and environmental situations. The environmentally sealed and electromagnetic RF interference protected E116 chassis is suited for mobile military applications such as glass cockpit avionics computers, mission computers, weapons control, and data handling/data management subsystems. The E116 accommodates six standard ANSI/IEEE1101.2 conduction-cooled VME64x VMEbus boards with a 0.8-in pitch as well as commercial VMEbus boards.



## Flame-resistant polymer

**Victrex USA's** PEEK polymer is characterized by high mechanical strength and low specific weight, and features higher specific strength vs. traditional materials such as aluminum. Additionally, it is halogen-free and inherently flame-resistant. It is suited for various aerospace applications, one of which is the door handle systems for the **Airbus A380**. Victrex worked with **KTR**, the supplier of the handles, to develop the 20-in, two-piece door handles, from filling simulations and distortion calculations to mold trials, load tests, production, and installation.



## Air-cooled torch

The WP-50 TIG torch from **Weldcraft** is rated at 60% duty cycle up to 50 A and offers pen-like control in tight quarters and on paper-thin material. The device is suited for precision work in the aircraft and aerospace industries. Its small size allows welders to make aesthetically pleasing welds on thin material without the risk of burn-through. The torch head is 5/8 in. in long with a diameter of 3/8 in., and comes with 70° and/or 180° degree head configurations. The entire torch is only 8.5 in. in long with a diameter of 0.75 in. at its widest point.



## Motion control software

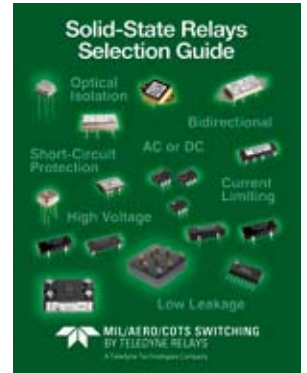
Version 3.04 of **Danaher Motion's** motion programming interface is an object-oriented C library for motion engineers. The integrated library is used for high-performance controls, drive/motors, and I/O. Its low-latency command-to-motion execution aids in integration of real-time motion with vision



or high-speed I/O. The deterministic network master features node self-enumeration, redundant fault tolerance, and event management. Real-time data access is provided to networked controls, drives, and I/O. A HotReplace feature allows servicing of machinery modules offline without process interruption.

## Solid-state relays

**Teledyne Relays' Solid-State Relays Selection Guide** features 74 families in a tabular format designed to assist engineers in choosing a product quickly. The 20-page guide provides information about the devices, which include ac, dc, and bidirectional relays with output ranging from 0.25 to 10 A. Included are parameters such as load voltage, load current, isolation type, input voltage, operating temperature, mounting, and dimensions.



## Lead-free transformers, inductors

Standard transformer and inductor products from **Datatron Distribution** now meet the EU's Reduction of Hazardous Substances (RoHS) regulations. An RoHS logo on product sheets denotes compliance and indicates the product is designed and manufactured with lead-free solder and does not contain levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls, or polybrominated ethers prohibited by the RoHS directives.



## Torque transducers

MCRT 48200V Series compact digital torque meters from **S. Himmelstein** are suited for control, laboratory, and production use; have no pots or switches; and do not require manual adjustments. In addition to storing calibration values, scaling, and units of measure in nonvolatile memory, the torque meters load these values automatically when powered up. Any of 10 supported units of measure can be selected without recalibration. These noncontact devices have full-scale ranges of 2.82 to 1.130 N·m. Internal signal processing is accurate to 14 bits.

