

# Product showcase

## Time-to-digital converter

The Acquiris TC840 CompactPCI module from **Acquiris** is a single- and multi-start time-to-digital converter module with 50-ps timing resolution. The device is suited for large-scale experiments including hydrodynamics, time-of-flight measurement in mass spectrometry, and 3-D mapping. It features inputs with programmable thresholds, which help when measuring the time of the rising or falling edge of fast trigger events. Twelve channels are independent stop inputs; the thirteenth is the common start. Start/stop events separated by as much as 20 s can be recorded. A large internal buffer allows the recording of up to 512 stops per channel.

*For more information, circle 100*



## Aerial survey system

The VueStar aerial survey system from **NavCom Technology** combines StarPac utility software that provides better integration into pre-existing workflows. The global navigation system is configured for all aerial survey applications and uses the global satellite-based StarFire

Network to provide precise positioning worldwide without the need for RTK base stations or GPS post processing. The system features an optional Event Latch Interface, which allows the system to operate with a variety of cameras and airborne sensors. The GPS receiver computes real-time positions at up to 25 times a second, re-acquires GPS signals faster than the previous version, and includes improved troposphere modeling, which better compensates for changes in altitude.

*For more information, circle 101*



## Radiometer/photometer

The Levy-Hill MkVI radiometer/photometer from **Applied Scintillation Technologies** is a handheld, dual-action portable unit for quantitative measurement of UV or visible light intensity. It is used for UV-lamp calibration and ambient light level measurement as part of fluorescent penetration and magnetic particle inspection methods. These are used to detect surface and near-surface flaws on critical components in aerospace and automotive castings and structural engineering. The system contains a large-area integrated detector head, designed to minimize errors from hot spots within the lamp under test. An automatic back-lit display allows measurements to be made in low light levels or under UV operation.

*For more information, circle 102*



## Fiber-optic connectors

The LuxCis Termini 38999 Connector System from **Stratos International** enables high channel density and optical performance in both single and multi mode. The LuxCis Termini is a common optical pin that can be used in a variety of connector systems including MIL-STD 38999 ARINC, EPX, and custom adapters to an LC interface. Features include 1.25-mm ferrules that support compact channel spacing for smaller shell sizes, and the density to offer up to 32 channels in one connector.

*For more information, circle 103*



## Mini gas spring

**Hyson Products'** T2-50 is a mini gas spring only 12 mm in diameter, with a 6-mm-diameter piston rod. The nitrogen gas spring contains safety features including the two-step piston head and over-pressure protection. It comes in stroke lengths from 7 to 125 mm with an M6 charge valve for easy charging and discharging as well as hosing gas springs together. It can be ordered in four pre-charged pressure ranges from 650 to 2610 psi, and contact forces from 30 to 112 lb.

*For more information, circle 104*



## Cable assembly

The MDM Octopus from **Trompeter** is a multi-interconnect shielded cable assembly featuring multiple twinaxial or triaxial RF connectors terminated on one end and a single Microminiature D Metal multi-pin connector terminated on the opposite end. The device meets the need for a densely packaged multi-pin interconnect that is also a lightweight shielded assembly ideal for secure communications, aircraft applications, and box-to-box networking. The unit is compliant with MIL-DTL-83513, a joint services specification.

*For more information, circle 105*



## Crystal oscillator

**Temex's** oven-controlled crystal oscillator comes in a 1- x 1-in flatpack for space applications. The device is designed for synchronization applications such as outerspace up/down link communications in which a wide operating temperature range and low energy consumption are critical. It meets the ESA-SCC3501 specification and complies with MIL-PRF-55310. The unit's frequency stability has a positive impact on satellite transceiver performances and makes it a smaller, cost-effective solution. Frequency range is 30 to 120 MHz; stability is  $\pm 0.1$  ppm nominal over a range of -25 to +70°C; power consumption is 0.3 W at 25°C in steady state.

*For more information, circle 106*

