

FIRST LOOK

A Smarter, RoHS-Compliant Connection ▼

C&K Components has enhanced their Smart Card Connector series with a more compact size, RoHS-compliant construction and greater security. The CCM01 and CCM02 units can handle 100,000 and 500,000 card insertion cycles, respectively, and feature dust-protected card detection switches. The new design also offers more room underneath the connector for space-sensitive SMT components. Additional metal pegs enable a higher value of resistance to card insertion force, up to 40 N.

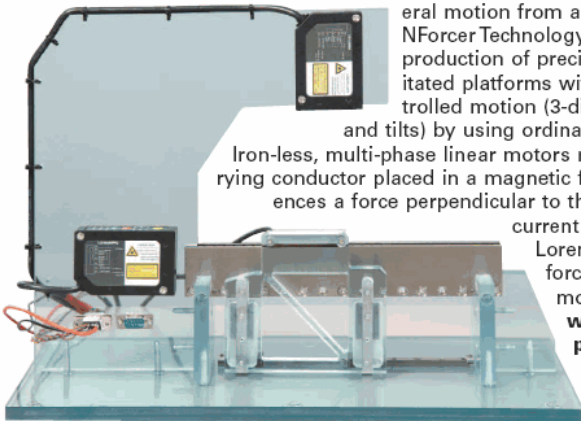
www.ck-components.com



New Linear Motor Technology ▼

Philips Applied Technologies recently unveiled a technique that allows standard linear motors to simultaneously provide movement along two axes. Looking at assembly equipment, Philips' 'NForcer Technology will allow designers to reduce the number of motors and electronic drive modules, which could result in higher accelerations and operating speeds. More specifically, this enables horizontally-mounted linear motors to generate lift as well as lateral motion from a single motor. NForcer Technology also enables the production of precise, magnetically-levitated platforms with six axes of controlled motion (3-dimensional shifts and tilts) by using ordinary linear motors. Iron-less, multi-phase linear motors rely on a current-carrying conductor placed in a magnetic field that experiences a force perpendicular to the direction of the current and the field (the Lorentz force). It is this force that creates the motion.

www.apptech.philips.com



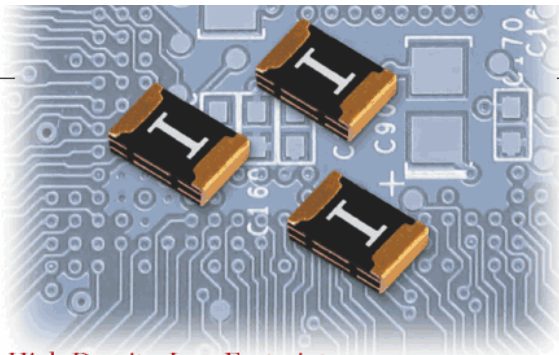
Sunlight-Readable Controller Screen ▼

Horner Advanced Products Group (APG) has introduced its XLt Operator Control Station. This new addition to their line of OCS Controllers represents one of the market's smallest all-



in-one controllers with a built-in touch screen, I/O, networking capabilities and removable mass storage. For use indoors or out, the touch screen can be viewed in direct sunlight as it uses transfective screen technology to provide a high-contrast, easy-to-see view. In low lighting conditions, an LED backlight can be used to illuminate the display. The XLt's front fascia features a system key and four function keys, with customization of the overlay or configuration available. This unit is compatible with Horner's XL Series of field installable add-on modules that can include Ethernet, telephone modem, radio modem or GPS receiver.

<http://www.hornerocs.com>



High Density, Low Footprint ▲

Tyco Electronics' new picoSMD035F resettable PPTC (polymeric positive temperature coefficient) PolySwitch™ circuit protection device offers a more compact, surface-mounted option for the latest generation of high frequency data ports, I/O ports and storage devices. Additional features include:

- An EIA-compliant form factor that consumes less than half the board space required by previous offerings, and a significant advantage in space-constrained board designs.
- Rated at 6 volts, the unit provides a hold current of 0.35 amps, a trip current of 0.75 amps and a maximum resistance of 1.4 ohms.
- RoHS-compliant with a nickel-gold finish for superior solderability.

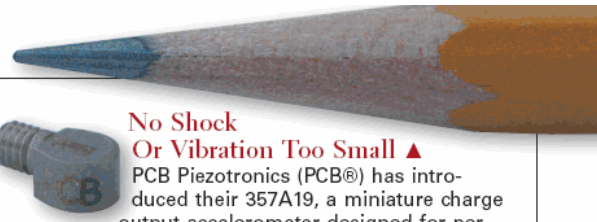
www.tycoelectronics.com.

Hand-Held Scanning ▼

Z Corporation has unveiled their new ZScanner™ 800, the second product in its line of handheld, self-orienting 3D scanners. Features include:

- According to the company, the ZScanner 800 offers five times the resolution and more than double the accuracy of its first-generation unit.
- Applications can include reverse engineering, design, manufacturing, digital mockups and simulations, as well as 3-D inspection.
- A third high-definition camera that increases scanning resolution and accuracy to within 40 microns and detects changes in surface height down to 50 microns.
- The ability to move the target object during scanning, display a real-time on-screen image of the surface being scanned and capture data in one continuous scan, rather than in numerous shots from fixed positions, saving time.
- ZScan™ software is included in automatically producing an STL file for import into a 3-D CAD software package, or output to a 3-D printer.

www.zcorp.com.



No Shock Or Vibration Too Small ▲

PCB Piezotronics (PCB®) has introduced their 357A19, a miniature charge output accelerometer designed for performing shock and vibration studies in space-restricted locations and on smaller, lightweight structures. The unit measures 0.11" x 0.16" x 0.27", weighs 0.007 ounces. It connects to laboratory-style charge amplifiers or in-line charge converters. Additional features include:

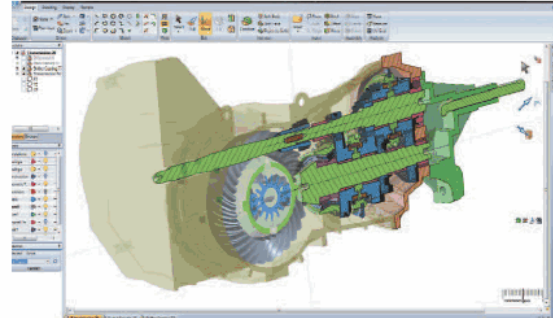
- An operating temperature range of -100 to 350 degrees F (-73 to +177 degrees C).
- Structured with a shear mode, piezoceramic sensing element and titanium housing.
- Can produce a 0.35 pC/g output signal, with a frequency response of up to 20 kHz and resonant frequency of greater than 70 kHz.
- A 10,000 g shock limit.
- A 3-56 coaxial electrical connector, and a standard 10' low-noise cable.

www.pcb.com.

All About The Interoperability ▼

SpaceClaim introduces their Professional 2007 offering with benefits that include:

- The ability to open 3D models from various vendors.



- Geometric inferencing that works in real time to highlight design similarities.
- Makes all design data accessible for product management through an open XML format.
- The ability to select geometry and pull it to a new location, or change section geometry at any cross section.
- A pull tool for pulling surfaces to create an extrusion, pocket or hole, or to rotate a surface around an axis.
- SmartTools™, which understand the user's intent.
- Accommodates PowerSelect™ functionality, so users can search the model for like geometry and select from a list to modify, move or delete items all at once.
- A TraceParts Library of more than 100 million standard CAD models from parts manufacturers.
- Offers a shell function, which automatically produces a consistent wall thickness.

www.spaceclaim.com