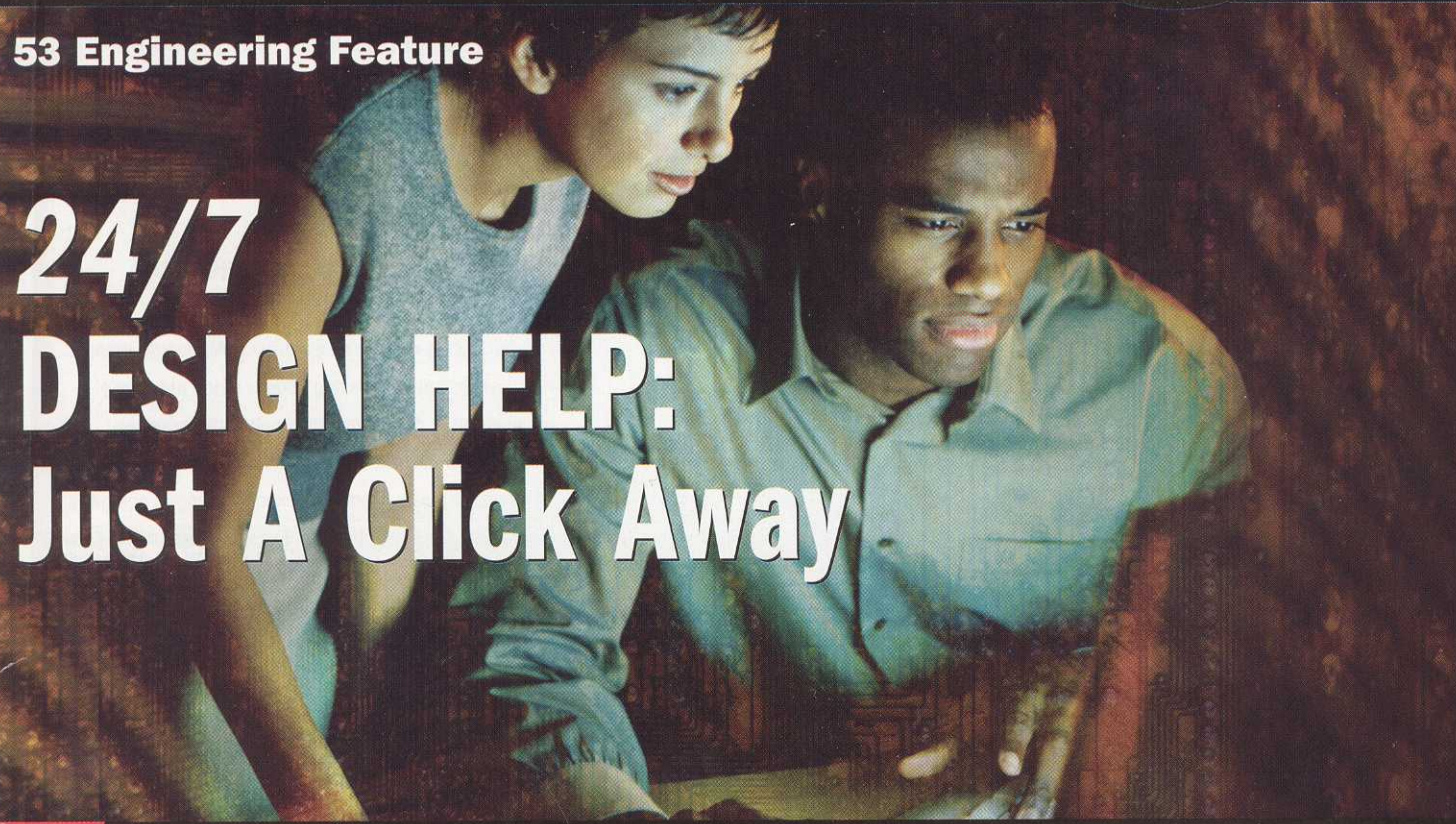


electronic design



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Digital Ink Technology Debuts In Thin Touchscreen



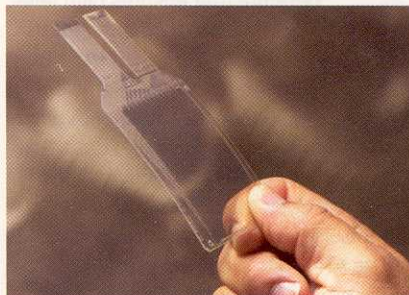
Roger Allan
Components/Testing
/Packaging Editor

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With a sensor thickness range of 0.36 to about 50.8 mm for the glass, a new flat panel takes advantage of "digital ink" technology, which lets users write on a computer touchpanel as if they were writing on paper with liquid ink. This form-fitting, unbreakable, wear-resistant touchscreen can accept many inputs, such as a stylus, a finger, or a gloved hand. Its palm-rejection feature rejects extraneous signals created by the user's palm print while touching the panel with a pen.

Diagonally measuring 5.7 in., the flat panel can transform any surface into a touchscreen. It's designed for applications where thinness, power efficiency,

and low weight are critical, like retail signature capture, Web phones, PDAs, gaming devices, GPS devices, and other handhelds. Customers can choose from any first-surface material (plastic or glass), including a store window front, tabletop, or bulletproof glass. Other attributes include special antibacterial, antimudger, and electromagnetic-interference coat-



This very thin and durable touchscreen uses digital ink technology to accept stylus, finger, and gloved-hand inputs with palm rejection.

ings; chemical resistance; flammability up to UL 94 HB; and scratch resistance per ASTM specifications from 5H to 9H.

The panel transmits light at up to 95% at 550 nm (depending on surface finish) and is 99.5% accurate. It has 10 ms or less of chattering time and insulation impedance of more than 20 MΩ at 10 V. Also, it can track pen inputs at 40 in./s, is activated by a force of 75 grams, and has a response time of 10 ms. Rated for 300 million touches in a single location, it features an RS-232C and USB interface, operates from 3.3 to 5 V, has an operating-temperature range of -15°C to 70°C, and works with Windows 95/98/2000/XP and Mac operating systems.

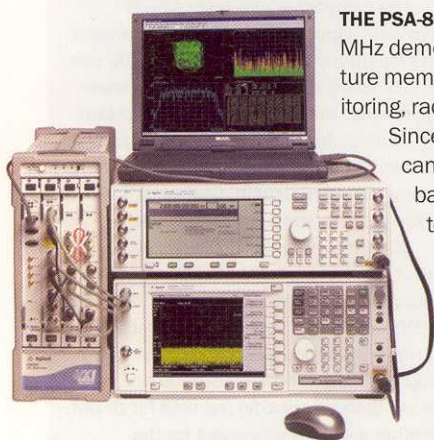
Based on order size and specifications, the digital ink panel costs from \$10 to \$60, including the sensor and controller. It comes with a 10-year warranty.

Touch International

www.touchinternational.com

(512) 388-0090 **ED Online 5683**

80-MHz Vector Spectrum Analyzer Has 8-Second Capture Memory



THE PSA-80BW VECTOR SPECTRUM ANALYZER offers 80-MHz demodulation bandwidth and an eight-second capture memory for multicarrier power amplifier, signal monitoring, radar, and satellite measurement applications.

Since the device saves so much time, designers can better focus on their specific next-generation basestation or modern aerospace defense-system component designs.

The analyzer provides up to 20-GHz frequency coverage, 0.1-dB amplitude flatness, 0.7° phase flatness, and optional 1.2-Gbyte (768-Msample/s) deep capture memory to provide eight seconds of full-bandwidth capture at the maximum sample rate.

The system is compatible with the Agilent 89600 series flexible demodulation software,

the Advanced Design System, and MatLab. The PSA-80BW comprises Agilent's E444X PSA spectrum analyzer and 89610A vector signal analyzer. The external calibration routine requires an Agilent E4438C ESG or an Agilent E8267C PSG signal generator.

The system is available now in basic RF and microwave configurations with optional eight-second capture memory. The basic RF configuration starts at \$108,752 and requires an Agilent E4438C ESG signal generator. The basic microwave configuration starts at \$138,771 and requires an Agilent E8267C PSG signal generator. Upgrades are available so that existing PSA series spectrum analyzers and 89600 series vector signal analyzers can work with the PSA-80BW.

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SERIAL-ATTACHED SCSI ANALYZER SUPPORTS WIDE LINKS

Billed as the industry's first Serial Attached Small Computer System Interface (SAS) analyzer, the SASTracer can support "wide" links. It's software-upgradable to support Serial ATA II (SATA) protocol analysis. The analyzer forms a single flexible system that offers plug-and-play analysis between SAS and Serial ATA links operating at 1.5 or 3 Gbits/s.

Built on CATC's UPAS 10K, SASTracer is expandable to support multiple SAS channels known as "wide" links. Initially supporting two-wide SAS connections, it will be upgradable to support four-wide links by the fourth quarter. The CATC Trace expert analysis software will automatically and logically group all frames and primitives that are part of a common operation at the Application Layer, even if they're spread across multiple physical pathways within a wide link. The analyzer records and analyzes out-of-band signaling problems, rate matching, and timing deltas between ALIGN bursts. With full support for SSP and SMP protocols, it decodes and displays all SAS Link Layer primitives up through SCSI and Management Application layers.

The SASTracer is available now. Check CATC's Web site for pricing and updates.

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