

PRODUCT HIGHLIGHTS

Ethernet bridge links to wireless network

Device supports 802.11g and power-over-Ethernet specifications

The model WET54G Ethernet bridge claims to be the industry's first such device to support the draft IEEE 802.11g standard. It allows system designers to link any device equipped with an Ethernet port to a wireless network without drivers, enabling it to work on any platform and under any operating system.

The bridge operates at 54 Mbits/s in the 2.4-GHz spectrum, but is backward compatible to 802.11b's 11-Mbit/s rate and can be configured for mixed-mode operation. The device features a setup

wizard and a built-in Web UI for Web-based configuration. It also supports security to 128-bit WEP encryption.

The unit is powered via adapter or through power-over-Ethernet. A dual-port model is also available, providing one 802.11g and one 802.11a port. (\$199—available now.)

Linksys, Irvine, CA

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EEM FILE 1900

► CIRCLE 312



The model WET54G claims to be the industry's first wireless Ethernet bridge, supporting the draft IEEE 802.11g standard.

RS-485 transceivers double common-mode voltage specs

Devices protect against noise and fault conditions from -20 to 25 V

The SN65HVD2x RS-485 transceivers claim to provide the industry's greatest protection against noise and fault conditions, more than doubling the TIA/EAI-485 common-mode voltage specifications at -20 to 25 V. The devices are ideally suited for long-cable networks and applications in

noisy and harsh environments that can cause data to be corrupted.

The SN65HVD20 provides up to 25 Mbits/s for connecting networks up to 64 nodes, while the SN65HVD21/22 connect with up to 256 nodes and feature a driver slew rate control up to 5 Mbits/s and 500 kbits/s, respectively.

The SN65HVD23/24 add receiver equalization technology for improved jitter performance on differential bus applications with data rates up to 25 Mbits/s at 160-m cable lengths or 3 Mbits/s at 500-m cable lengths. (From \$1.93 ea/1,000—stock.)

Texas Instruments
Santa Clarita, CA

Semiconductor Group (SC-03083)
800-477-8924, ext. 4500

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EEM FILE 3130

► CIRCLE 313

Digital gage head is industry's first

Device offers a higher level of interchangeability than analog heads

Packaged in a sealed stainless-steel housing with a 6-pin MS-style bayonet connector, the GC-485 gage head is presented as the first digital-output device of its type. By removing concerns over cable length, calibration, and recalibration, the device has a higher level of interchangeability than analog heads.

The self-contained unit is available in five bipolar measurement ranges with standard strokes from ± 0.050 to ± 1.0 in. The device takes an 8.5 to 30.0-Vdc input and has a two-wire addressable RS485 (ModBUS RTU in ASCII format) output prescaled in engineering units.

Maximum, minimum, and TIR functions are stored in memory, and features include a zero function so it may be set in either unipolar or bipo-

lar modes as required. The device is supplied with setup software and a demo program on CD-ROM. (From \$400 ea/10—available now.)

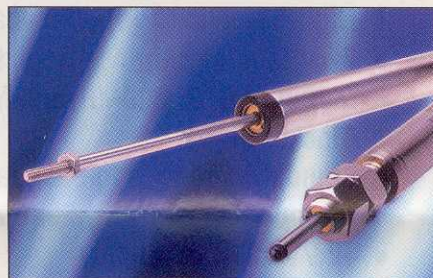
Schaevitz Sensors, Hampton, VA

Information 800-745-8008

<http://www.msiusa.com>

EEM FILE 5500

► CIRCLE 314



The GC-485 gage head is the first self-contained digital-output device of its type.

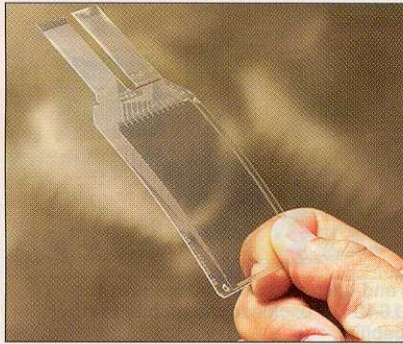
Touchscreen sets thickness, durability benchmarks

Form-fitting device also provides palm rejection for input error reduction

With a thickness from 0.36 to 0.58 mm and a surface hardness of up to 9H, the Digital Ink touch-

screen is presented as the thinnest and most durable device of its type. Available in glass or plastic, the antistatic and

PRODUCT HIGHLIGHTS



The Digital Ink touchscreen is the thinnest unbreakable device of its type available.

antibacterial device also eliminates accidental input from the pressure of a user's knuckles or palm, ensuring accurate input recognition.

The form-fitting screen can add the functionality of touch input to any surface, and is available in versions with up to 95% light transmission at 550 nm. Currently available in sizes up to 5.7 in. (Dia.), the device has a resolution as high as 1,000 counts/in.², a tracking speed of up to 40 in./s, a response time of less than 10 ms, a linearity of 99.5%, and a touch activation

force of roughly 75 g.

Communicating via RS-232 or USB, the operation voltage is from 3.3 to 5 V. Operating temperature range is from -15° to 70°C, and humidity tolerance is from 10% to 90% RH, non-condensing. (From approximately \$10 ea./large qty—available now.)

Touch International
Round Rock, TX

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EEM FILE 2450

► CIRCLE 315

Tiny Li-ion charger IC targets handhelds

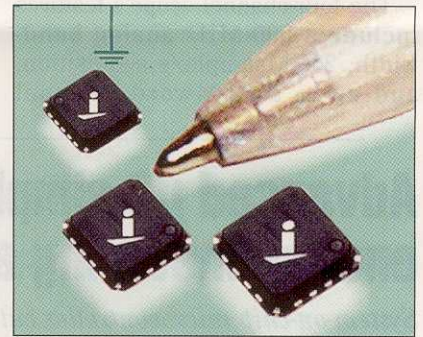
Device measures only 3 x 3 mm and enables 750% less thermal generation than competing parts

Housed in a 3 x 3-mm DFN package, the AnyAdapter ISL6292 Li-ion/Li-polymer battery charger IC is claimed to be the industry's smallest and most thermally efficient such device. Featuring full voltage protection, current protection, and the company's ThermoGuard temperature-controlled charge-rate protection, the part enables up to 750% less thermal generation than competing solutions, thus reducing charge time for similar operating conditions.

The device supports a variety of input sources, including voltage-

and current-limited wall-plug modules and USB bus power. Input voltage range is 4.3 to 6.5 V (7 V max), guaranteed to run at 2.65 V after startup. Additional features include an NTC thermistor interface and preconditioning of an overly discharged battery.

Charge voltage is 4.1 or 4.2 V with 1% accuracy, and charge current is resistor programmable up to 2 A max with 10% accuracy. Operating from -20° to 70°C, the charger is also offered in 16-pin 4 x 4-mm DFN and 16-pin 5 x 5 QFN packages. (\$0.95 ea./1,000—available now.)



The AnyAdapter ISL6292 Li-ion/Li-polymer battery charger IC is the smallest of its kind—measuring just 3 x 3 mm.

Intersil, Palm Bay, FL

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EEM FILE 3130

► CIRCLE 316

Fingerprint sensor enhances handheld security

Capacitance-based device draws only 12 mA in operating mode, 20 µA in standby



The MBF310 Sweep Sensor capacitive fingerprint scanner adds biometric security to power- and space-sensitive mobile devices.

Designed to add biometric security to power- and space-sensitive mobile devices, the MBF310 Sweep Sensor capacitive fingerprint scanner measures 16.1 x 6.5 x 1.2 mm and draws 12 mA in operating mode and 20 µA in standby. The device also eases system integration requirements by holding image data in an on-board 2-Kbyte memory until the host CPU is available, allowing the sensor to work within the processing constraints of some handhelds.

An automatic finger detection circuit activates the device, allowing it to wait in standby mode until needed, and an integrated finger guide reduces

scan error and provides a tactile guide to the user. The 218 x 8-pixel array provides an image resolution of 500 dpi, and a sweep rate of 20 cm/s.

The sensor operates from an input voltage of 2.7 to 3.6 V with an operating temperature range from -20° to 85°C. The CMOS device is packaged in an SMT 42-pin FBGA with a hard protective covering over the sensor surface. (From \$6 ea./1,000—available now.)

Fujitsu Microelectronics America
Sunnyvale, CA

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EEM FILE 5500

► CIRCLE 317