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There is also an embedded temperature sensor and an EEPROM for storage of calibration parameters, temperature and pressure compensation and has an easy-to-use microcontroller interface (SPI/TWI).

The design can be used for "static" and "dynamic" applications, which require from fewer than 1 up to 166 samples per second.

A typical application is as an interface with MEMS transducers to sense, for example, acceleration, pressure, altitude, humidity, rain, level and gas.

CPIC2.0 is available as a stand-alone device, or populated on a daughterboard for use with the supplier's mixed-signal Asic development kit, CAPRI2.

www.e2v.com

AMR magnetic switches for white goods and security

Murata has reduced the size of its AMR magnetic switches, which are now available in a package measuring 1.0x0.9x0.5mm, in addition to industrial standard package sizes such as SOT23 and SON4.

Anisotropic magneto-resistance (AMR) magnetic switches are primarily used for open/close detection in the appliances such as white goods and security equipment.

The attraction of magnetic switches is that, unlike their mechanical counterparts, there is minimal wear caused by contact between the sensor and the magnet, increasing reliability. Magnetic switches also make it possible to design water-tight products with the switches being protected from the outside elements, said the supplier.

The switches also feature low power consumption as they require only 1.6µA/1.8V or 4.7µA/5V.

www.murata.eu

Controller supports fast file transfer to handheld

Cypress Semiconductor has introduced a module for its West Bridge peripheral controllers that will support higher-speed transfer of multimedia files from a PC to handheld device via the widely-used media transfer protocol (MTP).

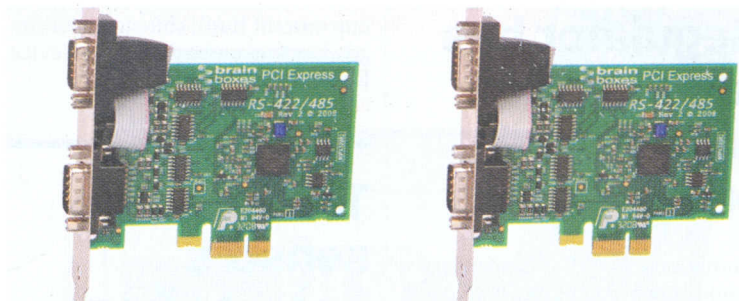
The turbo-MTP is designed to increase the effectiveness of MTP, a USB-based protocol used by online video and music services. MTP enables the transfer of metadata such as song titles, images, and digital rights management (DRM) information. It is designed to remove risks of file corruption when users unplug their handheld during a file transfer.

Natively supported in Windows Media Player, MTP protocol enables direct, drag-and-drop synchronization between WMP and a handheld.

www.cypress.com

RS232 serial UART has full hardware handshaking

Future Technology Devices International (FTDI) has introduced the USB-COM232-PLUS1 module, which is the first in a family of USB-



PCI Express serial cards for point of sale and ATMs

Brainboxes has a range of PCI Express RS422/485 serial cards.

Designed for use in industrial automation devices, point of sale systems and ATM cash machines, the RS422/485 cards are manufactured in the UK and will be available from Brainboxes and their resellers and distributors.

The RS422/485 boards are an addition to the PCIe RS232 range Brainboxes launched in January 2008, but provide higher speed operation and connections up to 4,000 feet, using noise-resistant differential pair driver/receivers.

Each serial port has 128 byte FIFOs, 1 MegaBoard data transfers with on board Hardware and Software flow control. These are bus systems and up to 32 standard load or 128 low load devices per port can be connected.

RS422 is supported with dedicated pairs for Tx, Rx, RTS and CTS signals. RS485 systems are supported in both Full Duplex mode using two pairs of wires and in half duplex mode using one pair of wires.

The half duplex mode uses the supplier's 485 Autogating circuitry for automatically turning the line around from receive to transmit and back again whenever the PC needs to send data to devices.

The range of cards comprises one, two and four port cards with opto isolation options available, and is supplied with an installation CD including manual, Microsoft signed drivers and utilities.

www.brainboxes.com

COM-PLUS modules.

The USB-COM232-PLUS1 is a USB to single channel RS232 level serial UART. The module incorporates FTDI's FT232RQ IC which handles all the USB signalling and USB to UART protocols.

The modules connect devices with a RS232 level serial UART interface (9 way standard D-type connector) to USB (type B socket).

Supporting communications with


any RS232 device, the module's RS232 port provides full hardware handshaking capability and a data rate of up to 1Mbit/s. It also has three LEDs which indicate power and gives a visual indication of traffic through the module.

The USB-COM232-PLUS1 module has a wide range of operating temperature from -40 to +85°C making it suitable for applications in harsh environments

www.ftdichip.com

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