



High Performance download system for Flash memory

Applications

Appliances equipped with a large
FLASH memory capacity

- * GSM, GPRS, UMTS Mobile phones
- * PDA's
- * Games consoles
- * Pagers
- * Internet terminals
- * In-car multimedia apps
- * GPS
- * Engine controllers
- * Digital cameras
- * TPE

Overview...

- ▶ **Cuts download times by a factor of 15 ***
- ▶ **Direct interface with the appliance: TTL 0-3V, 0-5V, RS232, RS422**
- ▶ **Communication speeds of up to 1.8 Mbps, fully adjustable to suit the requirements of the appliances**
- ▶ **Near unlimited number of download links on any given system ****
- ▶ **More than 200 Mb of local memory for storing data to be downloaded**
- ▶ **Development environment for creating download applications under Windows NT & 2000**

The MCX-PCI/U card



5 YEAR WARRANTY



High-speed download solutions for appliances equipped with FLASH

The downloading and personalisation phases currently represent a major bottleneck in the manufacture of appliances equipped with FLASH memory.

Our solutions, designed to meet the requirements of this market, enable the productivity of assembly lines to be increased considerably.

In the case of mobile phones, a FLASH memory of 100 Mb will be needed by 2004 to hold all the 3G/UMTS functionality.

Our solutions are already capable of downloading 16 Mb in little over a minute, compared with over 15 minutes for systems operating at a speed of 120 Kbps.

* Compared to a standard, 115.2 Kbps download solution

** Limited only by the number of slots available in a given machine ; 6 high-bandwidth links per card

System functionality

Higher speed

The MCX-PCI/U card features a UARTS 16C950 controller which operates in DMA mode with the on-board processor and dual 128 bytes deep Fifos for each link.

Tailored communication speeds

This architecture enables the card to achieve a sustained, asynchronous speeds of 1.8 Mbps per link simultaneously. Thanks to a highly advanced Prescaler system, communication speeds can be adjusted very precisely to suit the sometimes highly specific requirements of given appliances.

A large number of links

Each card features 8 links including 6 high-bandwidth links. It is possible to install as many cards in a given machine as there are free PCI slots, without any impact on the host system's performance.

A direct electrical interface

The appliances to be downloaded can be connected directly via low power TTL 0-5V, TTL 0-3V connectors or via RS232 & RS422.

An open, future-proof

The system's open 'Hardware' configuration (mezzanine communication interface) allows for simple upgrades for new download standards (I2C bus, SPI, infrared, BlueTooth, USB); only the card's link controller needs to be replaced, which doesn't affect the rest of the upload system.

A powerful development environment

The MCXNET development environment enables the creation of download applications that are tailor-made to the requirements of the particular appliance under consideration. Based around the real-time QNX 6 OS and TCP/IP, MCXNET provides a means for administering each card as if it were a network server, communicating with other cards installed on the same machine and in other systems connected to the network.

On-board processor

x86 100 Mhz Pentium-class processor dedicated to managing links and download protocols

On-board memory

Up to 16 Mb of system memory designed to hold the download application and up to 200 Mb of memory designed to hold the data to be downloaded

Operating systems

Windows NT & 2000. For any other OS, please contact us

Machines supported

Any machines featuring a 32 bit, V2.1 & 2.2, 33 Mhz, 5V PCI bus
Compact PCI: Please contact us

Dimensions

215 mm x 115 mm

Operating conditions

Relative humidity: 95% at 25°C
Temperature: -5°C to +65°C
Storage: -25°C to +70°C

Power rating

+VDC/1.2A

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ACKSYS is constantly looking at ways to improve its products.

The current specifications may therefore be modified without notice and the characteristics set out herein should not be construed as creating any contractual obligation.

All the products featured herein are designed and manufactured in France.

HOT LINE
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