FOR IMMEDIATE RELEASE

ACTiSYS Announced Low Power, Field Programmable IrDA Protocol IC and Adapter, for Embedded Applications

Fremont, California, USA, February 21, 2003 - ACTiSYS Corp., a long-time and leading IrDA technology and solution provider, announced the new generation of low power, field programmable IrDA Primary and Secondary Protocol IC (ACT-IR8200P/M), and IrDA Embedded RS232 Adapter (ACT-IR100SP/M) and Internal PCB (ACT-IR100SP/Mi), for embedded wireless data transfer and wireless printing applications.

This product series enable developers and manufacturers of embedded systems (PLC, medical monitoring device, industrial sensing device, instrumentation, cargo scale, serial printer, modem, etc.) to convert RS232 port to IrDA port and to exchange data wirelessly with PDA and cellphone via IrDA beam, instantly, without porting IrDA protocol software. It is a ready to use, pre-assembled and pre-tested hardware/firmware module that handles IrPHY, IrLAP, Test Frame, IrLMP, IAS, and TinyTP.

A) Benefits of IR100SP/M, IR100SP/Mi and IR8200P/M Series

1) It is pre-tested to pass the tough IrReady physical and profile tests.
2) Speeds up the IrReady certification of your embedded systems.
3) Speed up time to market for Serial IrDA capability.
4) Lower the non-recurring cost of developing Serial IrDA capability.
5) Lower the maintenance cost of IrDA capability.
6) Relieves the host device from handling the Transceiver hardware specifics.
7) Relieves the host device from handling time critical IrLAP requirements.
8) Assures wide interoperability with many existing and future IrDA compliant devices.
9) No need to port to and re-test/re-certify IrDA protocol software in various platforms.
10) Complete IrDA Secondary and Primary protocol for data transfer and printing.
11) Field programmable for easy upgrade of protocol firmware.

B) Features of IR100SP/M, IR100SP/Mi and IR8200P/M Series

1) Simple wired serial (RS232 or UART) interface to the hosting device.
2) Built-in IrDA protocol layers; IrLAP, Test Frame, IrLMP, IAS, IrComm (9 wire cooked), Tiny TP, IrLPT, IrOBEX Transport. These protocol layers are not just for Secondary (slave) mode, but also for Primary (master) mode!
3) Automatically handles time sensitive Discovery, Negotiation, Connection, etc., without burdening the host system.
3) Efficiently and automatically handles the minimum turnaround, maximum turnaround, and all time critical requirements.
4) Compliant to IrDA requirements for IrPHY and Protocol layers.
5) Very low component count. Small and modular in construction.
6) Low cost, and low power.

C) Features of IrDA Protocol IC, IR8200P/M

1) Built-in IrPHY encoder/decoder that interfaces directly to Infrared transceivers, saving space and cost.
2) Low power: Standby= 2uA, Active= 3mA (50mA max.), automatic wake-up from IR.
3) On-chip USART supports full duplex asynchronous serial communication and 3-wire or 4-wire synchronous peripheral interface (SPI),
4) On-chip 16-bit timer with 3 channels of versatile compare/capture blocks,

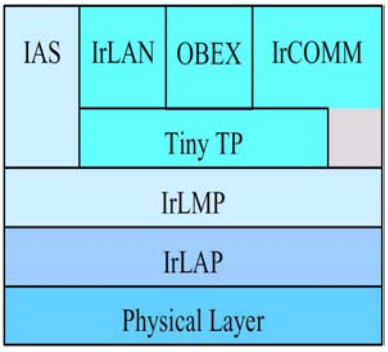
5) On-chip 12 bit ADC with 8 I/O pins free for embedded control applications.

D) Features of Internal PCB, IR100SP/Mi

1) It is a complete IrDA assembly, consisting of IrDA transceiver, encoder/decoder and complete IrDA protocol on single chip (IR8200P), 3.3VDC interface.
2) It measures only 22mm x 30mm and is suitable for, as small internal daughter board, upgrading embedded system to be IrDA capable.

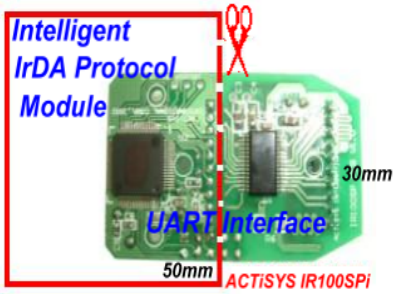
E) IrDA Protocol Partition Block Diagram

1) Includes IrPHY, IrLAP with Test Frame, IrLMP, IAS, IrComm, Tiny TP, IrLPT and IrOBEX Transport
2) This IrDA external adapter, internal PCB or controller IC interfaces with host system through wired serial with flow control.



F) IrDA Protocol IC and Adapter

An example of the ready made/pre-tested IrDA internal PCB, IR100SP/Mi and IrDA protocol processor IC, IR8200P/M are shown in the photo below.



ACT-IR8200P/M, IR100SP/M, IR100SP/Mi are available now.

About ACTiSYS Corp.

ACTiSYS Corp., has been offering wireless connectivity hardware and software solutions for the mobile applications since 1990. We offered the IR wireless printing and PC data transfer two-in-one adapter for PDAs in 1991. We are the leading supplier of IrDA adapters for PC-RS232, USB, motherboard and parallel and serial printers. We also offer IrDA protocol processor, and external RS232 adapter and internal PCB for embedded systems.

We supply the effective IrDA BER (Bit Error Rate) handheld tester and is one of the five IrDA certification centers approved by IrDA Test Council. ACTiSYS was one of the early members of IrDA since 1992. Our executives were elected by the IrDA member companies to be chair of Technical committee, and Test/Interoperability committee. We continue to develop unique IR and RF solutions for vertical markets as well as volume products for the consumer market. The company is privately funded and is headquartered in Fremont, California. Visit www.actisys.com for more information.

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