

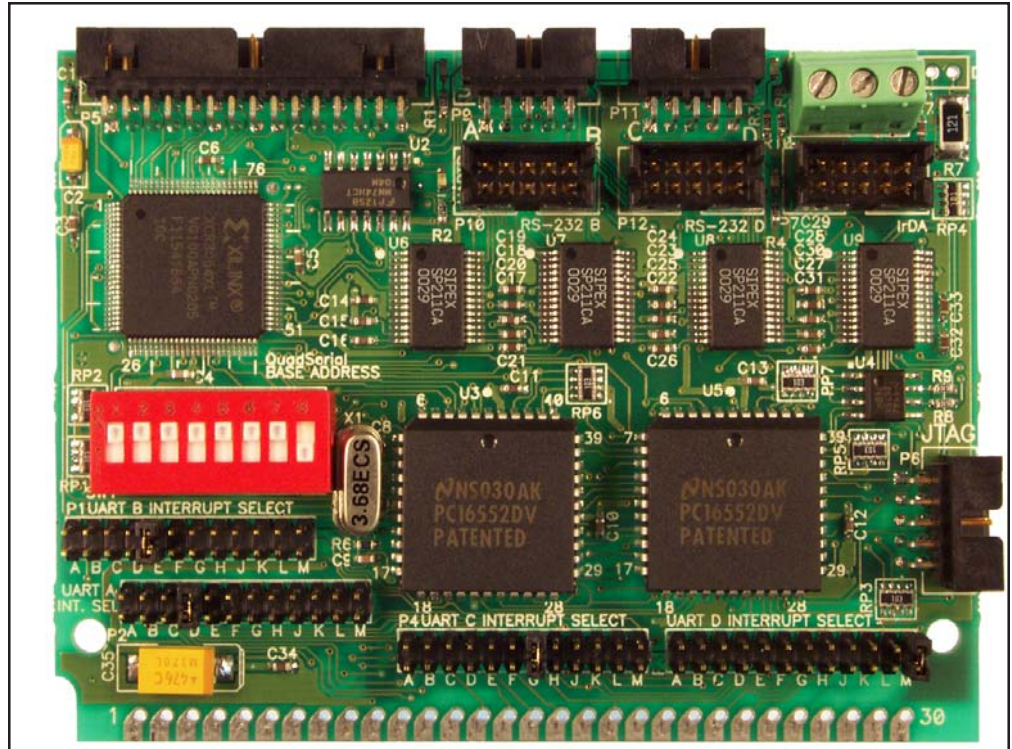
JSQS: Quad UARTs for HSIO/JSimm Systems

Add four UARTs with a high speed I/O bus (HSIO) bus interface to systems such as JStik.

Full javaxcomm support for RS232 (including hardware handshaking), plus Open-Source IrDA and RS485 support.

All UARTs can run at 115 kbaud simultaneously and each UART has a separate hardware interrupt for fast event servicing. JStik supports up to three JSQS modules for a total of twelve external UARTs.

Actual size is 3.00 x 2.65 inches



JSQS - four high speed UARTs on a compact JSimm SIMM30 module.

JSQS - RS232, RS485 and IrDA

JSQS - standard javaxcomm support

The most-requested peripheral for our JStik native-execution Java network module is "more UARTs". Now here they are -- up to twelve!

JSQS uses the HSIO bus for high speed data transfer and the JSimm bus for real-time interrupts. This provides a separate hardware interrupt for each UART channel. All UARTs can operate at 115 kbaud simultaneously.

All UARTs support javaxcomm for asynchronous serial communications. On each JSQS module, all channels can be RS232. One channel can optionally support RS485 and another can support IrDA.

- Dual 16C552 DUARTs for four serial channels
- HSIO bus for high speed data transfer
- All channels support RS-232 voltage levels. Available adapters for DCE, DTE and IrDA configurations. One channel can support RS485 voltage levels. Another can support IrDA infrared communications. Javaxcomm support is provided for all UARTs.
- JSimm/SimmStick bus for interrupts from each UART channel.
- 5 VDC power, low-power CMOS design with TTL-level I/O for use with 3.3V or 5V TTL systems such as JStik.
- Activity LEDs for each channel

JSQS - Quad UARTs with full Java Support!

JSQS combines dual standard DUARTs with support for the javaxcomm serial I/O package. Now you can add up to twelve external UARTs to a JStik or other HSIO bus system.

Compatible Controller Modules

At this time (fall 2003) the first commercial system to provide both HSIO and JSimm support is JStik (www.jstik.com). JStik is fully compatible with JSQS.

Development and OEM Versions are Available

Development kits with all required cables and adapters are available. You can also buy JSQS as an OEM module and select the exact adapters and cables you need.

Free Tool Updates, Tutorials and Support

Tutorials and examples come on CDROM and are online with product-specific links at www.jsimm.com. Free tool updates and documentation are available online. New online tutorials and benchmarks at www.PracticalEmbeddedJava.com. Expert user discussion groups are free and open to everyone.

JSQS TECHNICAL DETAILS

UARTs Dual 16C552 DUARTs for a total of four separate UART channels. The DUARTs share a 3.6864 MHz crystal.

Since each board requires four total interrupt signals, and there are twelve such signals available on the JSimm bus, up to three JSQS modules can be accommodated in a JSimm system.

Activity LEDs Each UART channel has its own activity LED which blinks ON to indicate presence of TX or RX data.

Power 5 VDC from JSimm pin 7. TBD mA typical.

Interrupts Each UART channel has its own hardware interrupt. Each channel's interrupt can be jumper-selected from twelve JSimm signals.

Java Support javaxcomm support for all UARTs, including hardware handshaking. Example code for half-duplex RS485 communication. Open Source support for the Java IrDA stack is available through the "jir" project at SourceForge.

Serial I/O Options 5x2 2mm headers accept standard Systronix DCE, DTE, or IrDA adapters. RS485 connection is by means of three screw terminals.

High-Speed Buffered I/O Bus 8-bit data bus, 12-bit address bus, strobes, and variable timing to match peripheral speed. 15x2 2mm header.

Size 3.00 x 2.65 inches with SIMM30 0.100 inch contacts.

Environmental Commercial temperature 0 to 70 deg C.

Support & Warranty Friendly technical support. One year warranty against defects.

Development Kits

Specially priced JSimm Quad Serial development kits are available in our online store.

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