1.8 V Dual UART, 20 Mbit/s (max.) with 128-Byte FIFOs, Infrared (IrDA), and XScale VLIO Bus Interface

SC16C852SVIET

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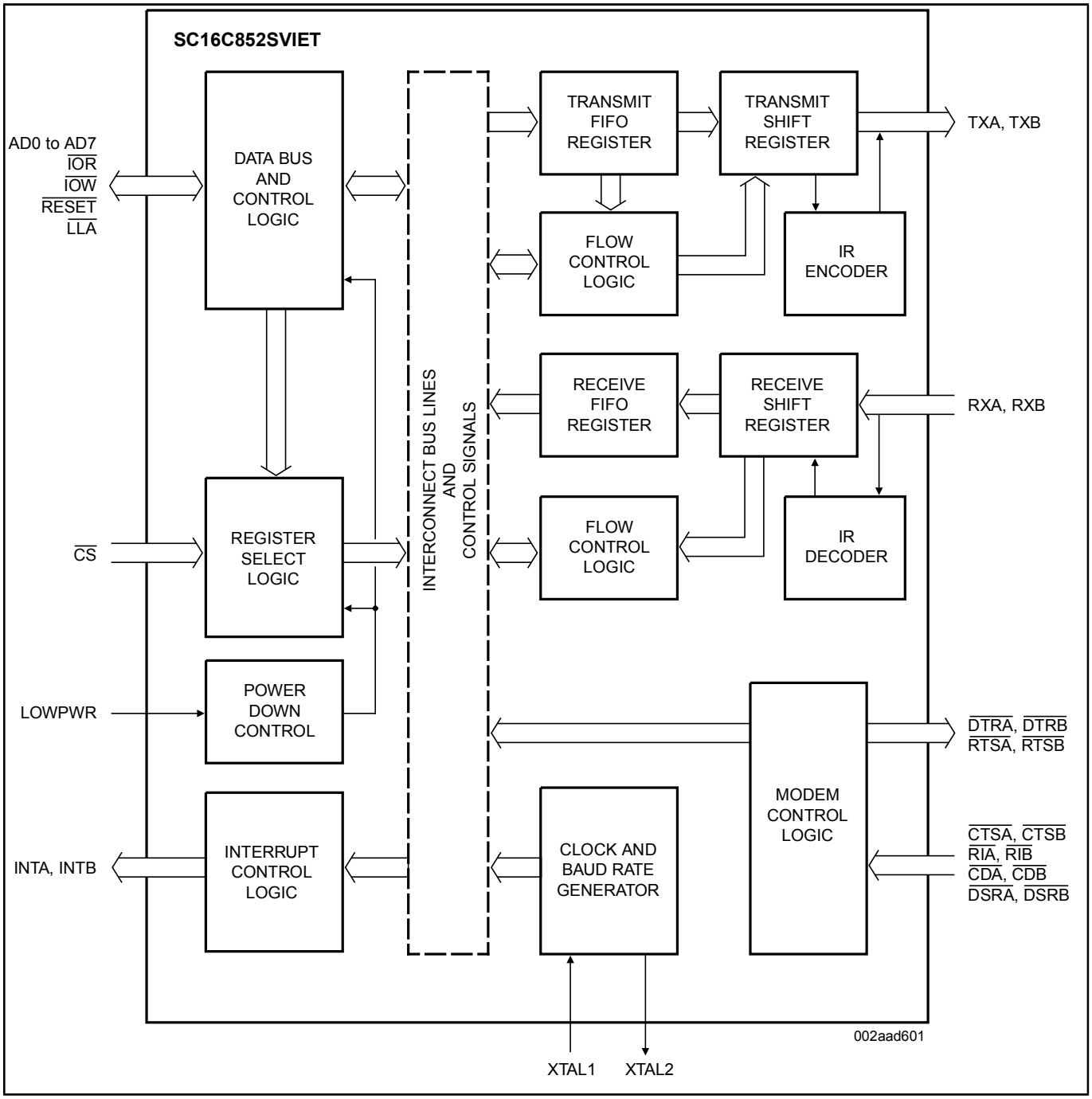
The SC16C852SV is a 1.8 V, low power dual channel Universal Asynchronous Receiver and Transmitter (UART) used for serial data communications. Its principal function is to convert parallel data into serial data and vice versa. The UART can handle serial data rates up to 20 Mbit/s (4x sampling rate). SC16C852SV can be programmed to operate in extended mode where additional advanced UART features are available (see Section 6.2). The SC16C852SV family UART provides enhanced UART functions with 128-byte FIFOs, modem control interface and IrDA encoder/decoder. On-board status registers provide the user with error indications and operational status. System interrupts and modem control features may be tailored by software to meet specific user requirements. An internal loopback capability allows on-board diagnostics. Independent programmable baud rate generators are provided to select transmit and receive baud rates.

The SC16C852SV with Intel XScale processor VLIO interface operates at 1.8 V and is available in the TFBGA36 package.

SC16C852SV Block Diagram



View additional information for 1.8 V Dual UART, 20 Mbit/s (max.) with 128-Byte FIFOs, Infrared (IrDA), and XScale VLIO Bus Interface.

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