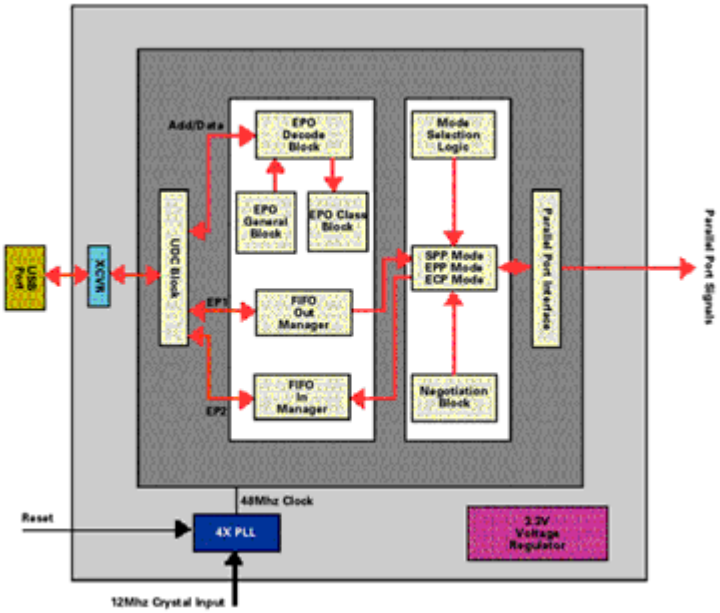
MSE9810: USB-to-Parallel Bridge Controller

MSE9810 is a single-chip device that converts the USB protocols to IEEE 1284 parallel interface protocols. MSE9810 does the conversion all in hardware at full speed, thus eliminating the need for software intervention. It supports SPP, ECP, and EPP modes in both forward and reverse directions. MSE9810 is capable of transferring up to 150Kbytes/sec in SPP mode and up to 2Mbytes/sec in ECP and EPP modes. MSE9810 contains a built-in transceiver for the USB port, 4X PLL clock generator for 12Mhz crystal input and 3.3V voltage regulator.



HIGHLIGHTS

- Full-speed USB Operation
- Three endpoints: control endpoint, BulkIn endpoint, BulkOut endpoint
- Built-in FIFOs
- Compliant with IEEE 1284 protocol specification
- Compliant with USB device class definition for printinG devices
- Supports Centronics
- Supports reverse byte mode (standard parallel port)
- Supports reverse nibble mode (standard parallel port)
- Enhanced parallel port (EPP) mode
- Up to 150Kbytes/sec transfer rate in SPP mode
- Up to 2Mbytes/sec transfer rate in ECP and EPP modes
- Built-in transceiver for the USB port
- Built-in 4X PLL clock generator from 12Mhz series resonant crystal input
- Built-in 3.3V voltage regulator