

Product Information

The SL811S is a low-cost, dual-speed, 8-bit USB interface controller chip that supports both I/O or DMA data transfers. Using either DMA or I/O, the SL811S can interface to any embedded microcontroller. The data is transferred to and from the host PC using a double buffer “ping-pong” operation in on-chip memory, at either the minimum USB transfer rate of 1.5 Mbps or the maximum of up to 12 Mbps. The SL811S incorporates a USB serial interface with USB transceivers, all in one 28-pin PLCC or 48-pin LPQFP package (SL811ST). The SL811S is supported by a comprehensive Developer’s Kit, including mini-port driver that allows customers to have a working USB peripheral in only 2 - 3 weeks. The SL811S is the lowest cost, dual-speed USB device available today and is an optimal solution for the following application areas:

Peripherals

- Scanners
- Digital Cameras (video & still)
- MP3 Players
- Note Pads (PDAs, hand-helds)
- Embedded Systems
- External Storage Devices
- Data Acquisition
- External Modems
- Multi-function Units
- Printers

Communications

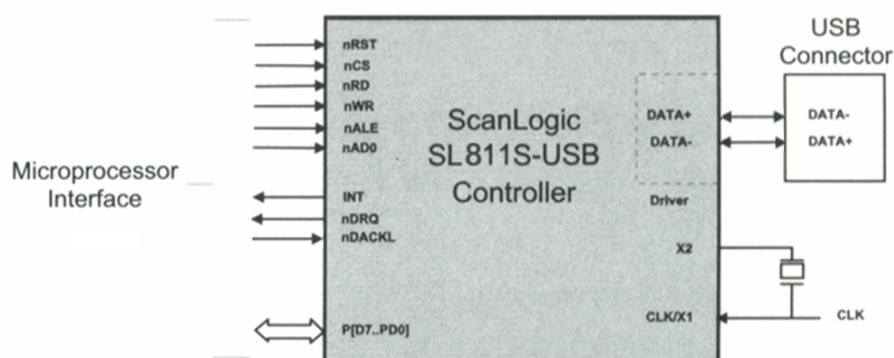
- Computer Telephony
- Video Conferencing
- Cable modems
- DBS/DSS Satellite
- ISDN/T1

Human Interface Devices:

- Gamepads
- Joysticks
- Keyboards
- Mice

Unique Features of the SL811S

- Supports all USB 1.1 protocol modes including bulk, isochronous, control, and interrupt modes.
- Allows sustained data transfers to/from peripherals at the maximum USB rate of up to 12 Mbps in support of high speed devices, or 1.5Mbps for Low speed devices
- 3.3/5v tolerance for I/O interface logic
- Internal RAM - 256 X 8 on-chip memory array provides a double buffering “Ping-Pong” operation scheme. Incoming/Outgoing data is buffered and sent or received to/from the USB port
- Data Port - 8 bit, Programmable Bi-Directional fast parallel data port (I/O or DMA)



ScanLogic is a member of the USB Implementers forum.



**We make the USB chips that
make peripherals work better!™**

SL811S/T Dual Speed USB Peripheral Controller

Features:

USB Specification Compliance

- USB Specification 1.1 compliant

CPU Interface

- Standard Microprocessor Interface
- Supports DMA Transfers
- 8 bit Bi-directional Parallel Interface
- 256 x 8 "On-Chip" memory array
- Four USB endpoints
- On-Chip USB transceiver
- Supports power suspend mode
- 3.3V or 3.3/5V CMOS Technology
- Generic WDM Mini Port driver for WIN98/2000 and CE 3.0, firmware and system USB demo source examples are available.

General

- 3.3 or 3.3/5V, 0.8 micron CMOS Technology
- 28-Pin PLCC or 48-Pin LPQFP packages

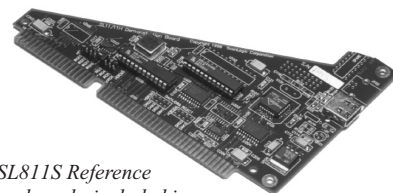


ScanLogic Developer's Kits

ScanLogic provides complete development tools for all of its products. Customers can have a working USB product in just 2 - 3 weeks!

SL811S Developers Kit includes:

- WIN98/2000 & CE 3.0 WDM generic USB device Miniport driver (object code).
- Firmware source code examples
- Demo source code examples
- Application notes
- SL811S reference design board
- Sample chips
- Free email support

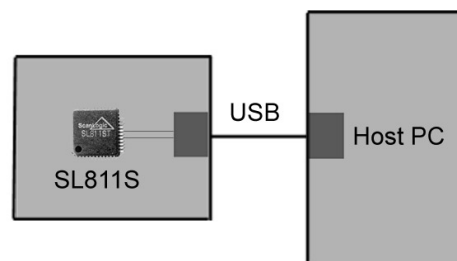


The SL811S Reference Design board - included in the SL811S DVK tool kit.

ScanLogic Corporation

ScanLogic was established in 1995 to develop, manufacture and license innovative and cost effective solutions for manufacturers of peripheral devices. ScanLogic's products combine Universal Serial Bus (USB) controllers; video compressors, signal processors; memory controllers; high speed CPU/RISC processors; software drivers under WIN98/2000, CE 3.0 and iMac; and development kits to provide high performance integrated chip solutions and ease of integration for OEM manufacturers.

ScanLogic is the first company in the world to introduce a series of unique USB controller chips that feature both Host and Slave functions in the same chip. These dual Host/Slave controller chips are an ideal solution for peripherals that are either standalone or connected to a PC - *or both!* For more information on either the Host Series or our other USB chip solutions, visit our web site at <http://www.scanlogic.com>.



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