



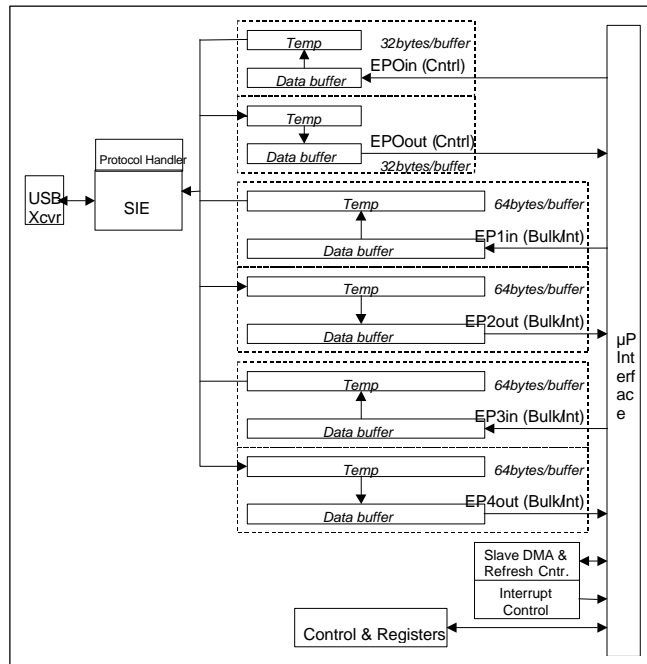
STANDARD
MICROSYSTEMS
CORPORATION

USB97C98 ADVANCE INFORMATION

USB Media Access Controller

FEATURES

- **Mixed Voltage Support**
 - Supports 3.3V Operation
 - Supports Mixed Internal 3.3V Operation with 3.3V/5V External Configuration (5V Tolerant/TTL Compliant IO)
- **Complete USB 1.1 Specification Compatibility**
 - High Speed Upstream USB Transceivers
 - Serial Interface Engine
 - Autonomous USB Protocol Handling
 - One Bi-directional Control Endpoint with 64 Byte Buffers
 - Two IN and Two OUT Bulk/Interrupt Endpoints with 64 Byte Buffers , One Set with DMA Capability
 - All Endpoint Buffers are Double Buffered
 - Error Status Register for System Quality Monitoring
- **Programmable Multi-Protocol Host Interface**
 - ISA-Style 5-Bit Address and 16/8-Bit Data Bus
 - IOCHRDY and No Wait State Support for Fast Accesses
 - Non-ISA 16/8-Bit Multiplexed Address/Data Bus
 - Programmable Read/Write Interface
 - Two 16/8-Bit DMA Channels
 - One Programmable IRQ
 - Chip Select
 - Multihost Interface Support Includes Hitachi and Mitsubishi Microcontrollers
- **24MHz Crystal Oscillator**
 - Supports Internal or External Clock Source
- **48 Pin TQFP Package**



© 1999 STANDARD MICROSYSTEMS CORPORATION (SMSC)



Circuit diagrams utilizing SMSC products are included as a means of illustrating typical applications; consequently complete information sufficient for construction purposes is not necessarily given. The information has been carefully checked and is believed to be entirely reliable. However, no responsibility is assumed for inaccuracies. Furthermore, such information does not convey to the purchaser of the semiconductor devices described any licenses under the patent rights of SMSC or others. SMSC reserves the right to make changes at any time in order to improve design and supply the best product possible. SMSC products are not designed, intended, authorized or warranted for use in any life support or other application where product failure could cause or contribute to personal injury or severe property damage. Any and all such uses without prior written approval of an Officer of SMSC and further testing and/or modification will be fully at the risk of the customer.