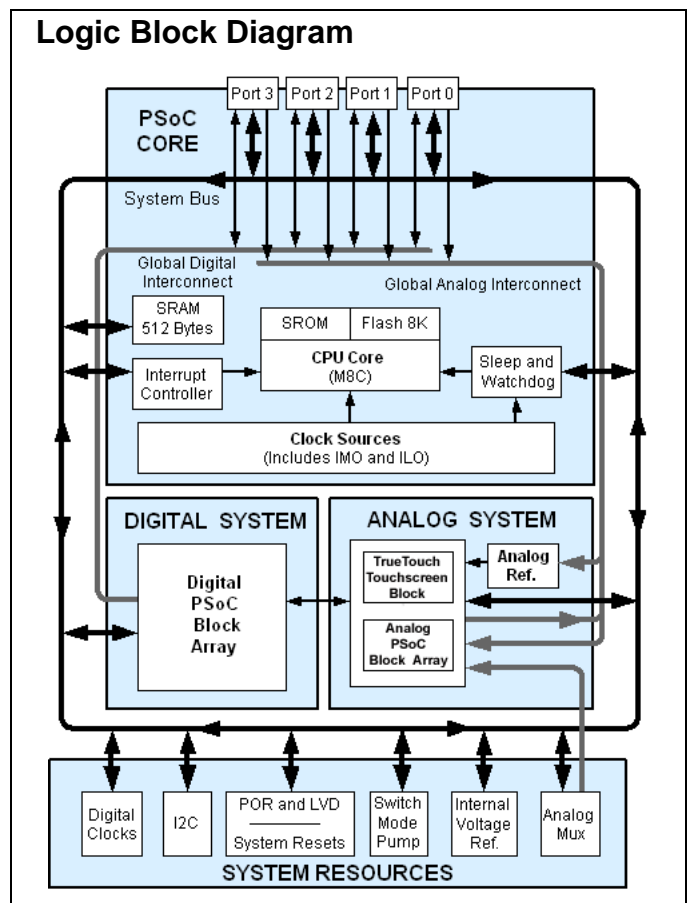


TrueTouch™ Single-Touch Touchscreen Controller

Features

- TrueTouch™ Capacitive Touchscreen Controller
 - Supports Single-Touch Touchscreen Applications
 - Supports up to 25 X/Y Sensor Inputs
 - Supports Screen Sizes 4" and Below (Typical)
 - Fast Scan Rates: Typical 1 ms per Sensor
 - High Resolution: Typical 320 x 240 for 2.6" Screen
 - Available in 32-Pin QFN Package
 - Transition to Higher Function Multi-Touch Gesture Device
- Highly Configurable Sensing Circuitry
 - Allows Maximum Design Flexibility
 - Allows Trade-Off Between Scan Time and Noise Performance
- Provides Maximum EMI Immunity
 - Selectable Spread-Spectrum Clock Source
- Low Power TrueTouch Single-Touch Touchscreen Device
 - 4 mA Average Supply Current at 8 ms Report Rate
 - 2 mA Average Supply Current at 16 ms Report Rate
- Powerful Harvard Architecture Processor
 - M8C Processor Speeds to 24 MHz
 - Low Power at High Speed
 - 2.4V to 5.25V Operating Voltage
 - Industrial Temperature Range: -40°C to +85°C
- Flexible On-Chip Memory
 - 8K Flash Program Storage, 50000 Erase/Write Cycles
 - 512 Bytes SRAM Data Storage
 - In-System Serial Programming (ISSP™)
 - Partial Flash Updates
 - Flexible Protection Modes
 - EEPROM Emulation in Flash
- Complete Development Tools
 - Free Development Software (PSoc Designer™)
 - TrueTouch Touchscreen Tuner
 - Full-Featured, In-Circuit Emulator and Programmer
 - Full Speed Emulation
 - Complex Breakpoint Structure
 - 128K Trace Memory
- Precision, Programmable Clocking
 - Internal ±2.5% 24/48 MHz Oscillator
 - Internal Oscillator for Watchdog and Sleep
- Programmable Pin Configurations
 - 25 mA Drive on All GPIO
 - Pull Up, Pull Down, High Z, Strong, or Open Drain Drive Modes on All GPIO
 - Up to 8 Analog Inputs on GPIO
 - Configurable Interrupt on All GPIO
- Additional System Resources
 - I²C™ Master, Slave, and Multi-Master to 400 kHz
 - Watchdog and Sleep Timers
 - User-Configurable Low Voltage Detection
 - Integrated Supervisory Circuit
 - On-Chip Precision Voltage Reference



Document History Page

Document Title: CY8CTST110 True Touch™ Single-Touch Touchscreen Controller Document Number: 001-46931				
Revision	ECN	Orig. of Change	Submission Date	Description of Change
**	2518134	DSO/AESA	06/18/08	New data sheet

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