

ST2203U

8-Bit Microcontroller With 2K Bytes RAM

Checklist

Version 2.0 2006/11/28

Preliminary

Note: This is not a final specification. Some parameters are subject to change.

Sitronix Technology Corporation



ROM CODE CHECKLIST

ST2203U					
8-Bit Microcontroller With 2K Bytes RAM					
OSCILLATOR	□32768 Hz Crystal (□Switch to normal load after 1.5 second) □Crystal MHz(tolerance ±30ppm)				
OPERATING VOLTAGE	□2.4V ~ 3.6V □3.0V ± 10% □3.3V ± 10% □Other RangeV Note: Maximum operating frequency = 8.0MHz@3.0V, 6.0Mhz@2.4V				
BATTERY					
POWER DOWN MODES	WAI-0 WAI-1				
LOW VOLTAGE DETECTOR	□Disabled □ External -LVD level1(2.4V) □ External -LVD level2(2.2V) □ External -LVD level3(2.0V) □ External -LVD level4(1.9V)				
LCD SPECIFICATIONS	Resolution: x Duty: 1/ VLCD: Frame Rate: Hz Alternation: Every Frame Lines Driver: ST8012x ST8008x ST8009x ST80)11x			
LCD Gray-level	Black and White 4 Gray-level				
REGISTER VALUE	When LCD is on: LCKR = LCTR = LFRA = When LVD is on: LVCTR =	LXMAX =			
	When power down: SYS = (WAIT0 or WAIT1)				
DATA SHEET: ST2203U user's manual Ver					
CODE FILE:	BIN DATE(Y/M/D): 20/				
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Note:

- a. File format must be binary and the extension should be ".BIN".
- b. File should be wrapped in ZIP format for transferring or e-mailing.
- c. Only single file is allowed.
- d. File length equals to 131072 (128x1024) bytes.
- e. Functions should be checked on the emulation board or by real chip.
- f. Electric characteristics of the emulation board are not identical with those of the real chip.

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SALES

Project Name:

DATE:

ITEM			NOTE
1	Check the desired frequency matched the VDD		
2	Check and use the updated version of data sheet		
3	After power on, enter wait-1 mode for 1.5 second before normal operation		
4	Initialize user RAM and every related control register		
5	Confirm contrast level, duty, frame rate, alternating rate and the display quality of		
	LCD		
6	Before entering power down mode, turn off unused peripheral such as LCD		
Ŭ	controller, and LVD		
7	Confirm I/O direction, default state, and function enable bits. Enable pull-up for		
	unused input pins		
8	Read from an input port after the signals are stable. Ex. when doing key scan,		
Ŭ	delay 12 us from a new scan value then read the return lines.		
9	If an input connects to VDD or GND directly, make sure to remove any DC current		
	from internal pull-up/down resistor after the status is being read.		
	Do not use "read-modify-write" instructions, e.g. ROR and SMB0, to the registers		
	that are read-only, write-only or have different functions for read and write. The		
	registers at least include PA ~ PD, PL, PCD, PFC, PFD, TIEN, PCL, TxCH, TxCL, PRS,		
10	BTREQ, BTCKS, RTCR, RTC, IRRH, PRRH, DRRH, XREQ, MISC, SYS, IREQL,		
	IREQH, LSSAL, LSSAH, LVPW, LCKR, LFRA, LPAN, LCTR, LAC, SDATAH, SDATAL,		
	SSR, SMOD, DMSL, DMSH, DMDL, DMDH, DCNTL, DCNTH, LVCTR, BCTR,		
	USBIRQ, USBBFS, USBCON, EP0CON, EP0LEN, BKCON, BKOLEN, INTCON, WEC		
11	Disable unused functions and reserve "RTI" instruction for unused interrupt vectors		
12	Check stack memory limited within 256 bytes.		
13	Always disable interrupt function (by an 'SEI' instruction) when modifying the		
	IENAL, IENAH, IREQL and IREQH registers.		
14	Use a ST2203U real chip, together with the emulation mode, to development the		
	whole system. Test and verify every condition		
15	File length of released binary file must equals to 131072 (128x1024) bytes		



	Settings of Port-	L for LCD control signals must include lines below:	
	STZ	<pl< td=""><td></td></pl<>	
16	LDA	#FFh	
	STA	<pcl< td=""><td></td></pcl<>	

Engineer

Manager

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