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RSB-4220

TI Sitara AM3352 Cotrex A8 3.5" Single board



Features

- TI Sitara AM3352 Cortex A8 1.0GHz
- On-board DDR3 800MHz 512MB & 4MB SPI NOR Flash & 4GB eMMC NAND
- Support 4GPI / 4GPO w/ESD & isolation
- 6x UART w/ESD protection (Contact 4KV / Air 8KV)
- Support 2x Gigabit Ethernet ports and 1x Mini PCle socket
- Supports Linux Kernel V3.2.0
- Operation temperature $0 \sim 60^{\circ} \text{ C} / -40 \sim 85^{\circ} \text{ C}$
- Support 18bit LVDS resolution up to 1366 x 768
- HW WTD for system protection







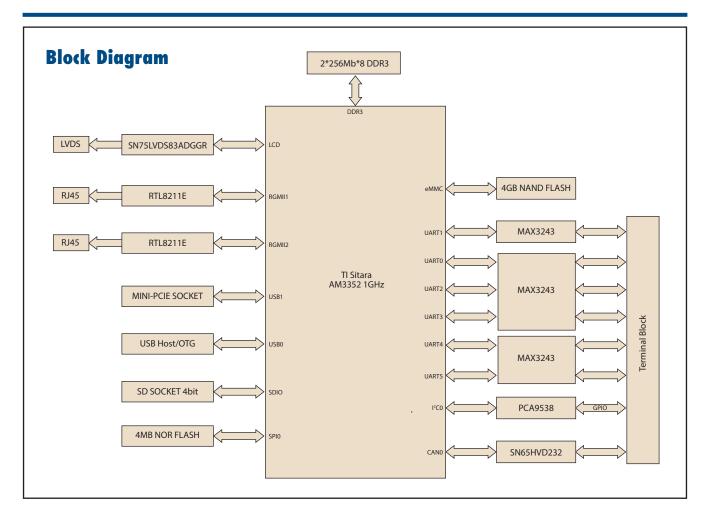


Introduction

RSB-4220 series are the RISC SBC which integrated TI Sitara AM3352 Cortex-A8 processor. It offers 2x gigabit Ethernets, 6x serials port, 4x GPI and 4x GPO. For the industrial application, the UART & GPIO feature a rugged ESD and isolatoin protection and it can protect system from unstable power damage. Otherwise, RSB-4220 also has multiple power input and operation temperature support, even support a single channel 18 bit LVDS up to 1366 x 768 resolution. It is an ideal solution for automation control such as smart grid, industrial and machinery automation applications.

Specifications

Form Factor		3.5" SBC						
	CPU	TI Sitara AM3352 Cortex A8 1.0GHz						
Processor System	Capacity	On-board DDR3 800MHz 512MB						
	Flash	4 GB eMMC NAND Flash for O.S. and 4 MB SPI NOR Flash for booting code						
Graphics	LVDS	Support 18bit LVDS resolution up to 1366 x 768						
Ethernet	Transceiver	RTL 8211						
LUIGITIOU	Speed	2 x 10/100/1000 Mbps						
WatchDog Timer		MSP430G2202 (time out:1~6553s,default 60s/power on/off 1s)						
	USB	SB USB2.0 HOST /OTG (By jumper selection)						
	UART	6 (1x 4 wires RS-232/422/485, 5x 2 wires RS-232) The 6 UART w/ ESD protection (Contact 4KV/ Air 8KV)						
	CAN	1 x CAN bus version 2.0 A and B						
1/0	ODIO	4x GPI/4x GPO (w/ESD & isolation, optional) GPI: FSD analysis of Contact MOV/Air RIGH.	GPO:					
	GPI0	ESD protection: Contact 4KV/ Air 8KV Isolation: 0 ~ 50Voc input and 10KHz speed	ESD protection: Contact 4KV/ Air 8KV Isolation: 5 ~ 40Voc output and 10KHz speed (200mA max/chanel sink current)					
	I ² C	1						
	Button	1x Reset						
Expansion	Mini PCle	1x mini-PCle socket (USB signal only)						
Ехрановин	SD Socket	1 x SD slot						
	Power Supply Voltage	Power Supply Voltage + 12/19/24 VDC-In						
Power	Power Type	Two poles lockable DC-in						
	Power Consumption	2.8W (Idle)						
Environment	Operational Temperature							
Operating Humidity		5%~95% Relative Humidity, non-condensing						
Mechanical	Dimensions (W x D x H)	146 x 102 x 1.6 mm						
Operating System		Linux kernel v3.2.0						
Certifications		CE/FCC Class B						



Ordering Information

Part Number	CPU	Memory	еММС	LCD	SD	CAN	UART	GPI0	Isolation	ESD	USB host/ OGT	LAN	mini-PCle	Operation Temperature
RSB-4220CS-MCA1E	TI AM3352 1.0GHz	512MB	4GB	1	1	1	6	8	Serial: No GPIO: Yes	Serial: Yes GPIO: Yes	1	2	1	0 ~ 60° C
RSB-4220WS-MCA1E	TI AM3352 1.0GHz	512MB	4GB	1	1	1	6	8	Serial: No GPIO: Yes	Serial: Yes GPIO: Yes	1	2	1	-40 ~ 85° C

Packing List

Part Number	Description	Quantity
1652006830-01	TERMINAL BLOCK 20x2P 2.54mm 180D 0156-1A40	1
RSB-4220CS-MCA1E	RSB-4220 1GHz for 0~60°	Choose
RSB-4220WS-MCA1E	RSB-4220 1GHz for -40~85°	Any One

Optional Accessories

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	Part Number	Description				
	1652006830-01	20x2P 2.54mm 180D 0156-1A40				
	96PSA-A36W12R1	ADP A/D 100-240V 36W 12V				
	96LEDK-A070WV40NB1	7" LED PANEL 350N 800X480(G) G070VW01 V1				
	1700022248-02	M CABLE USB-A(M)/USB-A(M) 15CM AMK-V006E				
	1700021565-11	Debug Cable				
	SQF-ISDS1-4G-82C	SQF SD C6 SLC 4G, 1CH				
	170203183C	Power Cord 3P Europe (WS-010+WS-083)183cm				
	1700023307-01	A cable DC JACK/Plug-in 1*2P-5.0 10cm RSB-4220				
	1700023366-01	Backlight cable				
	1700024543-01	LVDS cable				
	170203180A	Power Cord 3P UK 2.5A/3A 250V 1.83M				
	1700001524	Power Cord 3P UL 10A 125V 180cm				