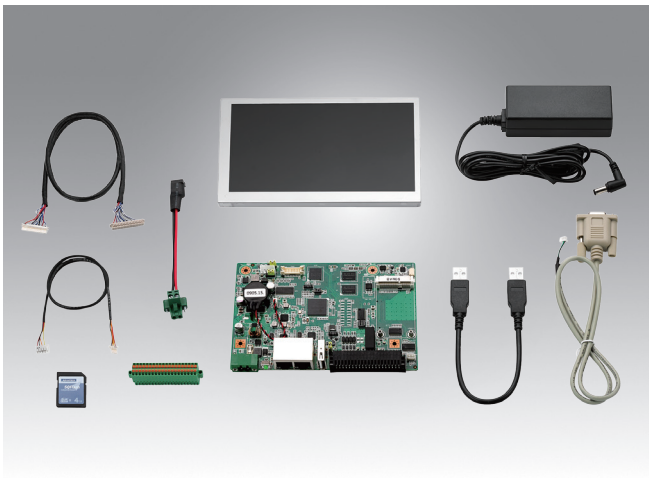
RSB-4220 Evaluation Kit

TI Sitara™ ARM® AM3352 Cortex®-A8 3.5" SBC with Linux Kernel V3.2.0



Features

- Evaluation kit for RSB-4220
- Low power TI Sitara AM3352 1GHz processor
- On-board DDR3 800MHz 512MB & 4MB SPI NOR Flash & 4GB eMMC NAND Flash
- Supports 4GPI / 4GPO w/isolation
- 5x UART w/ESD protection (Contact 4KV / Air 8KV)
- Supports 2x Gigabit Ethernet ports and 1x Mini PCIe socket
- Supports 18-bit LVDS with up to 1366 x 768 resolution
- HW WTD for system protection
- Operating temperature 0 ~ 60 °C
- Cable pack & Panel included
- Evaluative image & test utilities built-in

Specifications

Kernel	CPU	TI Sitara AM3352 Cortex A8 1.0GHz
	System RAM	512 MB DDR3 Memory
	Image/AP Flash	4 GB onboard eMMC
	Graphics Chip	CPU internal 18bit TTL to LVDS
	RTC	Yes
	Watchdog Timer	Yes
	Reset	H/W reset & S/W reset
I/O	COM	5 (1 x 4 wires RS-232/422/485, 4 x 2 wires RS-232) The 5 UART w/ ESD protection (Contact 4KV/ Air 8KV)
	Ethernet LAN	2 x 10/100/1000 Mbps
	USB	1x USB2.0 HOST /OTG (By jumper selection)
	SD/MMC	1
	I^2C Interface	1
	CAN Bus	1
	Mini PCIe Connector	1 (USB signal)
	GPIO	4x GPI/4x GPO (w/isolation) GPI: Isolation: 0 ~ 50Voc input and 10KHz speed GPO: Isolation: 5 ~ 40Voc output and 10KHz speed (200mA max/chanel sink current)
Multimedia	Graphics Chip	CPU internal 18bit TTL to LVDS
	Resolution	1366 x 768
	LCD Interface	18bit LVDS
	Brightness/Backlight Control	Yes
Power	DC-input	+ 12/19/24V DC-In
Power Consumption	Normal Run	~2.8 W
	Full Run	~3.3W
Mechanical & Environmental	Board Size	146 x 102 x 1.6 mm
	Weight	110g
	Operating Temperature	0 ~ 60 °C (32 ~ 140 °F)
	Operating Humidity	5% ~ 95% relative humidity, non-condensing

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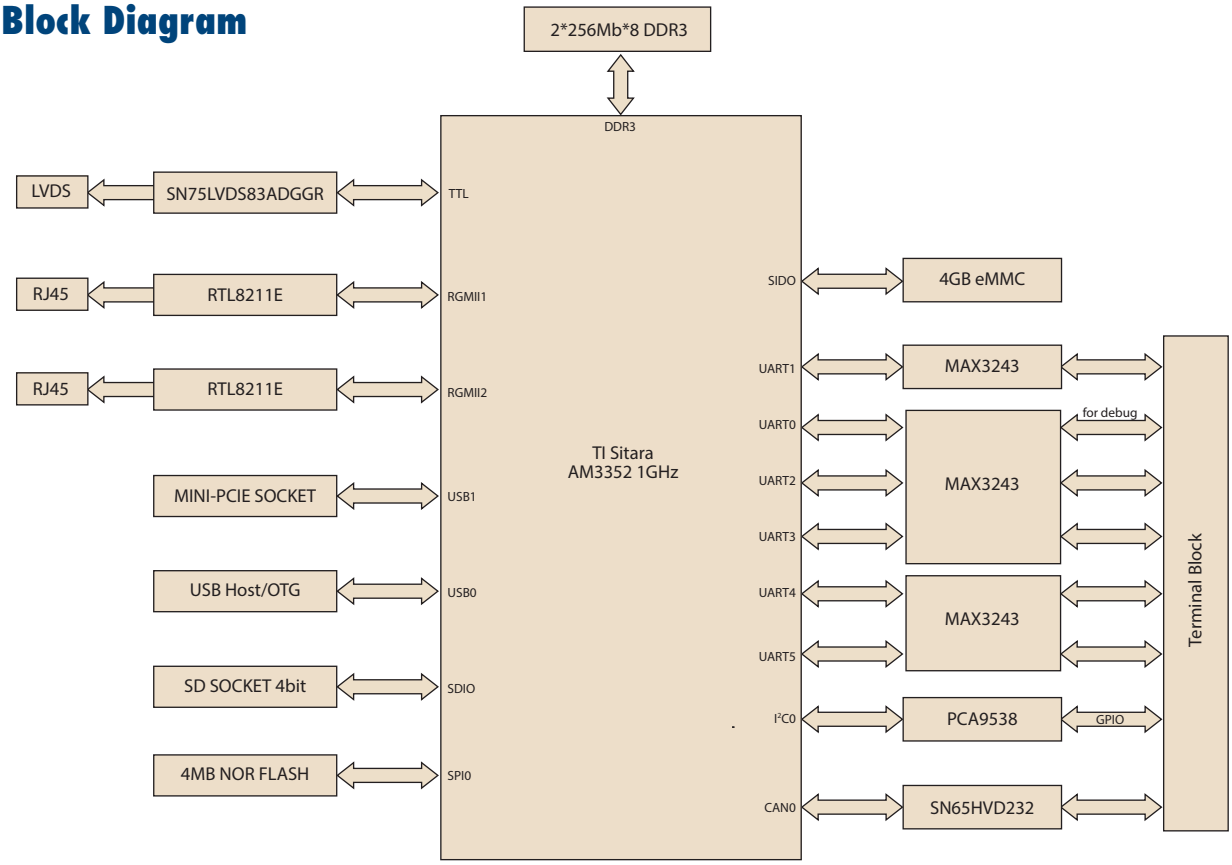
Block Diagram



Ordering Information

Part Number	Description
RSB-DK4220-F0A1E	RSB-4221 Evaluation Kit

Packing List

Part Number	Description	Quantity
9696422001E	Sitara AM3352 512M DDR3 SDRAM,4 GB onboard flash	1
1652006830-01	TERMINAL BLOCK 20x2P 2.54mm	1
96PSA-A36W12R1	ADP A/D 100-240V 36W 12V	1
1700023307-01	DC JACK to Plug-in cable	1
1700001524	3-pin USA standard power cord	1
SQF-ISDS1-4G-82C	SQFlash SD card 4G	1
96LEDK-A070WV40NB1	7" LED PANEL 400N 800x480(G)	1
1700024543-01	LVDS cable	1
1700023366-01	LCD blacklight cable	1
1700021565-11	D-SUB 9P cable for debug	1

Option Accessories

Part Number	Description
170203183C	Power Code 3P Europe 183cm
170203180A	Power code 3P UK 183cm