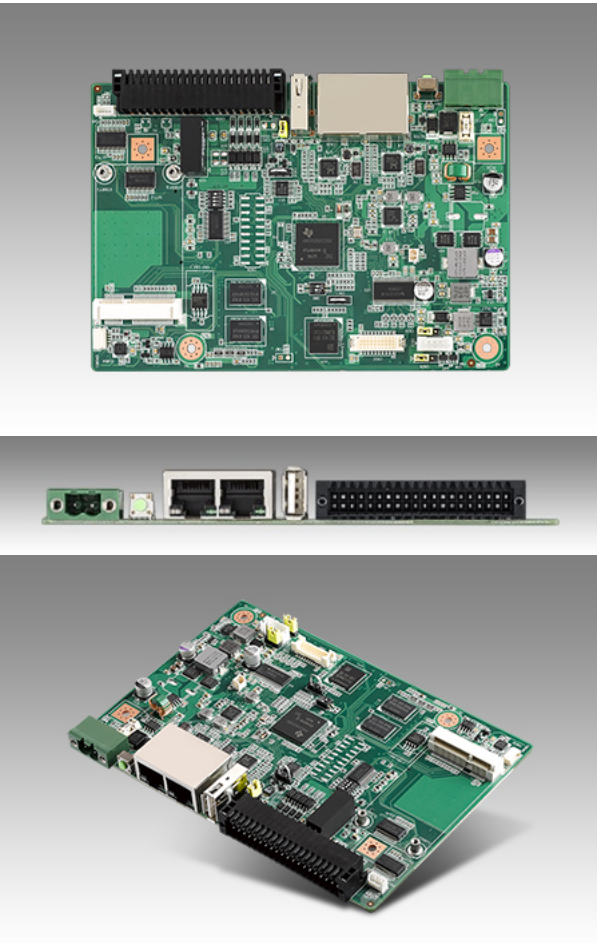


RSB-4220 RISC Single Board Computer



TI Sitara™ ARM® AM3352 Cortex®-A8 1.0GHz

On-board DDR3 800MHz 512MB & 4MB SPI NOR Flash & 4GB eMMC NAND Flash

Supports 4GPI / 4GPO with isolation & ESD protection (Contact 4KV / Air 8KV)

5x UART with ESD protection (Contact 4KV / Air 8KV)

1x CAN 2.0 A or B

2x Gigabit Ethernet ports and 1x Mini PCIe socket

18-bit LVDS with up to 1366 x 768 resolution

Hardware Watchdog timer for system protection

Operating temperature 0 ~ 60 °C / -40 ~ 85 °C

Lower power consumption, fanless design

Supports Linux BSP

Processor: TI Sitara series

TI Sitara AM3352 Cortex A8 Single core 1GHz

Supports multiple I/O interface and HW WTD

System Memory Support

DDR3 800 MHz

Capacity: On board DDR3 512MB

Gigabit Ethernet

Transceiver: Realtek 8211

2 x10/100/1000 Mbps

Peripheral Interface:

1 x Single channel 18 bit LVDS

1 x USB 2.0 host/OTG (by jumper selection)

2 x Giga LAN, 1 x I2C, 1 x CAN, 8 x GPIO w/ isolation

1 x SD Slot

1 x RS-232/422/485, 5 x RS-232)

1 x Reset button

1 x mini PCI-e slot (USB signal only)

HW WDT by MSP430G2202

RSB-4220 is a 3.5” SBC (Single Board Computer) with TI Sitara AM3352 Cortex A8 1GHz processor. The RSB-4220 can support 512MB DDR3 and 4 GB eMMC onboard flash, LVDS, 5 UARTs, 1 USB 2.0 Client , 2 GbE, 1 SD and Mini PCI-e. The RSB-4220 is focus on Automation application and provides customers a high performance and low power consumption on Cortex A8 architecture which is ready-to-run, compact, and easy-to-expand in order to meet customers' versatile needs. With flexible I/O interfaces and complete hardware and software solutions, RSB-4220 is a fast time-to-market platform for customers to develop their applications and products easily without considering system integration.

Specifications

SBC type:

Single Board Computers 3.5

Processor

Processor:

TI Sitara™ ARM® AM3352 Cortex®-A8

Clock Speed:

1 GHz

Real Time Clock:

Memory

Primary Flash:	
4GB eMMC NAND	
Secondary Flash:	
4MB SPI NOR Flash	
Primary I/O	
GPI/O:	
4x GPI & 4x GPO with isolation	
SDIO:	
SD card	
Disk Interface:	
SD card Slot	
Video Out:	
LVDS	
Ethernet:	
2 x 10/100/1000 Mbps TI AM3352 integrated RGMII	
USB:	
1x USB2.0 HOST /OTG (By jumper selection)	
Serial Ports:	
5x COM (1x 4-wires RS-232/422/485	
4x 2-wires RS-232)	
Watchdog:	
Primary I/O Misc.:	
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)	
Secondary I/O	
CAN:	
1x CAN bus version 2.0 A & B	
LPT Port:	
Keypad:	
PS/2:	
Analog on	
A/D:	
A/D Channels:	
N/A	
D/A:	
D/A Channels:	
N/A	
Dimensions	
Dimensions:	
5.75 × 4.02 in	
Form Factor:	
3.5 Inch SBC	
Power Requirements	
Power Misc.:	
Power Supply Voltage	

: + 12/19/24 VDC-In

Power Type: Two poles lockable DC-in

Power Consumption: 3.3W (Max)

Environmental
Low Operating Temperature:
0 C

High Operating Temperature:
60 C

Upper Operating Humidity:
95%

Environmental Misc.:
Wide temp, -40 ~ 85 °C (optional)

Pricing
RSB-4220CS
RSB-4220CS-MCA1E, TI AM3352, 512MB RAM, 4GB eMMC NAND, 5x COM, 1X USB2, 2x GbE, 4x GPI, 4x GPO, LVDS 0 ~ 60 °C
\$175.00

Order:
0

Parent Product:

RSB-4220WS

RSB-4220WS-MCA1E, TI AM3352, 512MB RAM, 4GB eMMC NAND, 5x COM, 1X USB2, 2x GbE, 4x GPI, 4x GPO, LVDS -40 ~ 85 °C
\$225.00

Order:
0

Parent Product:

Source URL: <https://www.emacinc.com/content/rsb-4220-risc-single-board-computer>