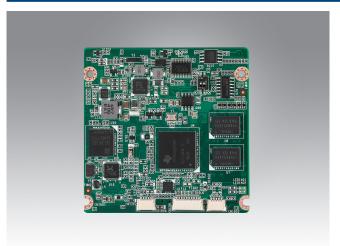
ROM-3310

TI Sitara™ ARM® AM3352 Cortex®-A8 1GHz RTX2.0 Module



Features

- TI Sitara[™] ARM® AM3352 Cortex®-A8 1Ghz high performance processor
- On board DDR3 512MB memory / 4GB EMMC
- Supports wide range power input 5V~24V
- Supports 1 GbE, 1 USB 2.0, 1 USB 2.0 OTG, 2 CANbus, 10 GPIO, 4 UART, 1 I²C, 1 I²S, 1 SPI, 1 SDIO
- Operating temperature 0 ~ 60 °C / -40 ~ 85 °C
- Low power consumption, fanless design
- Supports Linux BSP





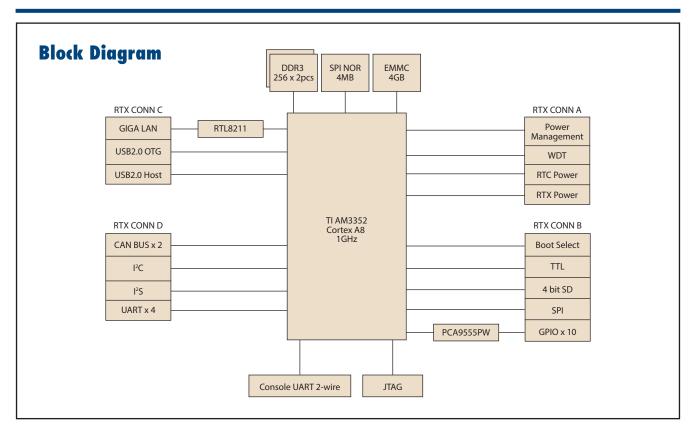
Introduction

ROM-3310 RTX2.0 module integrates an ARM Cortex A8 single core 1 GHz TI AM3352 series ultra low power SoC and I/O solution with Linux. TI AM3352 supports multiple serial ports, 5V~24V wide range power inputs, and wide temperature -40 ~ 85 °C operation for data collection in industrial applications. Based on a thickness of 2 mm board, it uses an anti-oxidization golden finger design.

ROM-3310 RTX2.0 module offers an Advantech ROM-DB3900 evaluation carrier board for easy integration and hardware design reference, and also provides a Linux BSP utility and reference codes for application development and device integration.

Specifications

Form Factor		RTX 2.0						
Processor System	CPU	TI Sitara Cortex A8 AM3352 1Ghz						
1 10000301 Oystolli	Technology	DDR3 on board 800MHz						
Memory	Capacity	512MB						
William	Flash	4GB EMMC NAND Flash for O.S & 4MB SPI NOR Flash for ADV loader						
Graphics	Parallel RGB	1 x 24-bit TTL, 1366 x 768						
	Chipset	TI AM3352 Integrated RGMII						
Ethernet	Speed	1 x 10/100/1000 Mbps						
RTC	RTC	Yes						
WatchDog Timer		MSP430G2202 (time out : 0.1~6553.5s, power on/off 4s)						
	USB	1 x USB 2.0 host,1 x USB 2.0 OTG						
	I ² S	1						
	SDI0	1						
1/0	Serial Port	4 x UART (1 x 4 wire, 3 x 2 wire w/ 3.3V)						
1/0	SPI	1						
	CAN	2 x CAN 2.0						
	GPI0	10						
	I ² C	1						
Power	Power Supply Voltage	5 ~ 24 V						
ruwei	Power Consumption	2.11W (Max)						
Environment	Operating Temperature	0 ~ 60 °C/ -40 ~ 85 °C						
LIIVII OIIIIIGIIL	Operating Humidity	0% ~ 90% relative humidity, non-condensing						
Mechanical	Dimensions (W x D)	68 x 68 mm						
Operating System		Linux Kernel v3.2.0						
Certifications		CE/FCC Class B						



Ordering Information

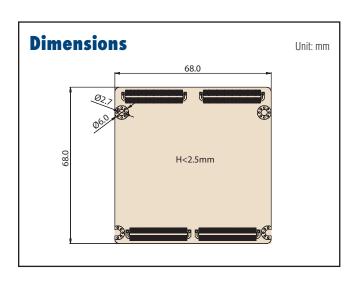
Part Number	CPU	Memory	Flash	Parallel RGB	LAN	GPI0	USB Host	USB OTG	I ² C	I ² S	SD	SPI	UART	CAN	Operating Temperature
ROM-3310WS-MCA1E	TI Sitara AM 3352 Cotex A8 1GHz	512MB	4GB	1	1	10	1	1	1	1	1	1	4	2	-40 ~ 85 °C
ROM-3310CS-MCA1E	TI Sitara AM 3352 Cotex A8 1GHz	512MB	4GB	1	1	10	1	1	1	1	1	1	4	2	0 ~ 60 °C

Development Board

Part No.	Description					
ROM-DB3900-SWA1E	Development board for RTX2.0 module					
ROM-DK3310-F0A1E	ROM-3310 EVK Kit (RTX v2.0)					

Optional Accessories

	Part Number	Description
	9696ED2000E	Debug adapter board
	1700022373-01	Debug port cable for ROM-3420/5420/3310
	1960070578T001	Heatsink_Black for ROM-3310
	1930002234	Screws M2 5v12 5L for Heatsink



Embedded Linux Support and Design-in Services

Hardware Certified Ubuntu and Yocto with Eco Partner Services

Linux is the most popular embedded OS for transportation, outdoor services, factory automation, and mission critical applications. Its open source and kernel reliability features ease security updates, and make it particularly adaptable to new AI and Edge computing technology. Advantech has cooperated with Canonical and other software partners to provide hardware certified Ubuntu image and Yocto BSP as Linux offerings. The Advantech, Embedded Linux, and Android Alliance (ELAA) delivers local software services and consultation.



Features

Certified OS and BSP

- Platform compatibility tests
- Preloaded functional driver and software stacks

Licensed Services

- License authorized
 Canonical delivers
 10-years of bug fixes and security updates
- · In-house bundled service

Numerous Al and Edge Resources

- Containerized technology for service provision and deployment
- Al resources from Caffe, TensorFlow, and mxnet

Local Partner Alliance

 Embedded Linux and Android Alliance (ELAA)

WISE-DeviceOn

Massive IoT Device Management Utility

IoT deployment and management typically involves numerous disparate devices installed on multiple sites. These devices require effective monitoring, managing, and tracking. Advantech's easy-to-use WISE-DeviceOn interface enables users to remotely monitor device health, troubleshoot problems, and send software/firmware updates over-the-air (OTA). In sum, DeviceOn empowers quick real-time responsiveness to emerging problems.



Features

Comprehensive Management

- · Devices status
- · Peripherals/firmware
- · Open for extension

Remote Access

- · Real-time monitoring
- · Remote controls
- · Troubleshooting

Efficient Operations

- · Zero-touch on-boarding
- OTA updates
- · Batch control

Product Highlights



SOM-6883

High-performance 11th Gen Intel® COMe Type 6 Module



MIO-5375

Compact 11th Gen Intel® Outdoor Focused 3.5" SBC



EPC-B5587

10th Gen Intel® Xeon® based Edge server



EPC-R3220 Arm based IoT Edge Gateway