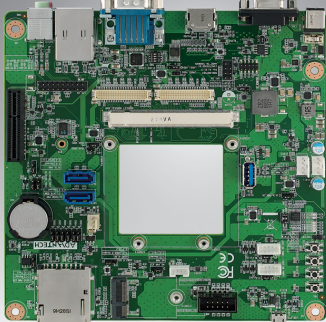


ROM-DB7503

Development Board for Qseven V2.1 ROM Modules

NEW



CE FCC 

Features

- Supports Qseven V2.1 RISC Module
- Mini-ITX form factor
- Dual display outputs HDMI 2.0 and 24-bit LVDS
- Supports 1 x PCIe, 1 x GbE, 4 x USB 2.0, 1 x USB OTG2.0, 1 x SATAII, 1 x I2C, 1 x I2S, 1 x CANbus, 8 x GPIOs
- Support AT/ATX mode, Input power +12V
- Cable pack included
- Evaluative image & test utility built-in

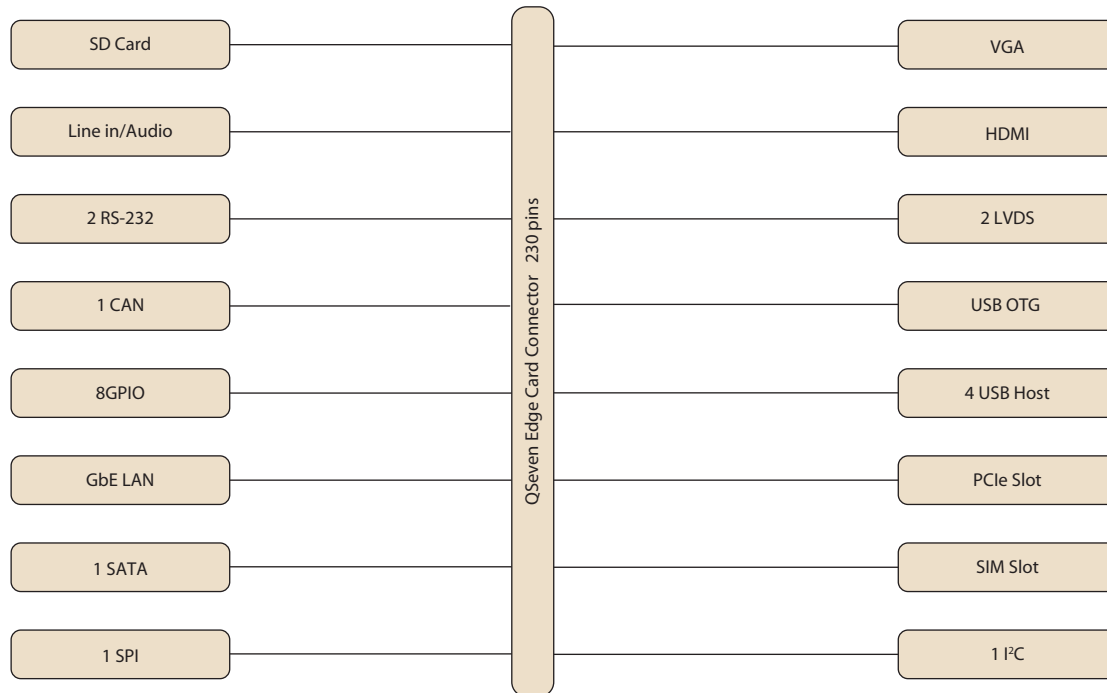
Introduction

ROM-DB7503 is the Referenced Carrier Board designed for Advantech's Qseven 2.1 module. It provides a thorough environment for module board evaluation with its complete function support. It's more easier for the end user to design portable devices by referring ROM-DB7503 design.

Specifications

Compatible Modules		Qseven V2.1 CPU module
Graphics	HDMI	1 HDMI 2.0 TypeA
	LVDS	2 Single 24-bit LVDS
	VGA	-
Ethernet	LAN	1 GbE with RJ45 connector
Storage	Flash	-
	SD	1 SD card slot
	SATA	2 SATA Connector
I/O	USB	1 USB mini Type B (OTG), 3 USB 3.0 Type A
	COM	1 4-wire RS-232 DB9, 1 RS-232/422/485 DB9
	Audio	1 2 port phone jack, support Line-in , Line-out
	CAN	1 CAN bus 2.0B DB9, Differential mode +5V
	GPIO	1 pin header
	I ² C	1 pin header
	SPI	1 pin header
	Camera Input	-
	Keypad	-
	I ² S	1 pin header
Expansion	PCIe Slot	1 PCIe by 3
	M.2	M.2 2230 Key E with
Power Input	Power	2 Power Inputs (+12V DC-Jack, Lithium-ion battery)
Environment	Operating Temperature	0 ~ 60 °C
	Operating Humidity	0% ~ 90% relative humidity, non-condensing
Physical Characteristics	Dimensions	170 x 170 mm

Block Diagram



Ordering Information

Part No.	Description
ROM-DB7503-SCA1E	Development board for RISC Qseven Module series

Packing List

Part No.	Description
1700004711-11	SATA 7P/SATA 7P 8CM C=R 180/180
1700021941-01	SATA Power Cable 15P/1*4P-2.5 40cm
1700023619-01	A cable USB-A 4P(M)/micro USB 5P(M) 1m
1700029175-01	F cable FFC 10P-0.5/10P-0.5 15cm
9696ED21000	ASS'Y ROM-ED21 A101-1 USB to 4 Uarts co

Optional Accessories

Part No.	Description
96PSA-A60W12R1-1	Adapter 100-240V 60W 12V 5A PLUG 90°
1702002605	Power cord 3P EU 183cm
1702031801	Power cord 3P UK 183cm
1700000237	Power cord 3P PSE 183cm
EWM-W163M201E	AW-CB260NF, Wireless LAN and BT module
1750008717-01	WiFi/BT 2.4+5G, RSMA F (WiFi Antenna)
1750008653-01	RSMA F to MHF4 20cm (WiFi Cable)
EWM-C117FL06E	mini-PCIe LTE/HSPA+/GPRS module, w/ SIM Slot, TOBY-L280H, for Taiwan
1750007990-01	LTE (700 ~ 960MHz, 1710 ~ 2700MHz), SMA M (4G Antenna)
1750006009	SMA F to U.FL 25cm (4G Cable)
9680015491	PCIe to miniPCIe adapter card
IDK-1107WR-40WVA1E	7" Color TFT-LCD Panel, 800 x 480