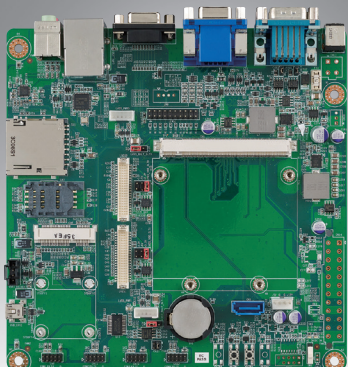


ROM-DB7500

Development Board for Qseven v1.2 RISC Module



Features

- Supports Qseven v1.2 module form factor
- Mini-ITX form factor
- 2 24-bit LVDS, 1 VGA, 1 HDMI
- 2 CAN bus 2.0B, 4 RS-232 (2 wire)
- 8 GPIO, Line-in/Audio-out
- Support ATX mode, Input power +12V
- Cable pack included

Introduction

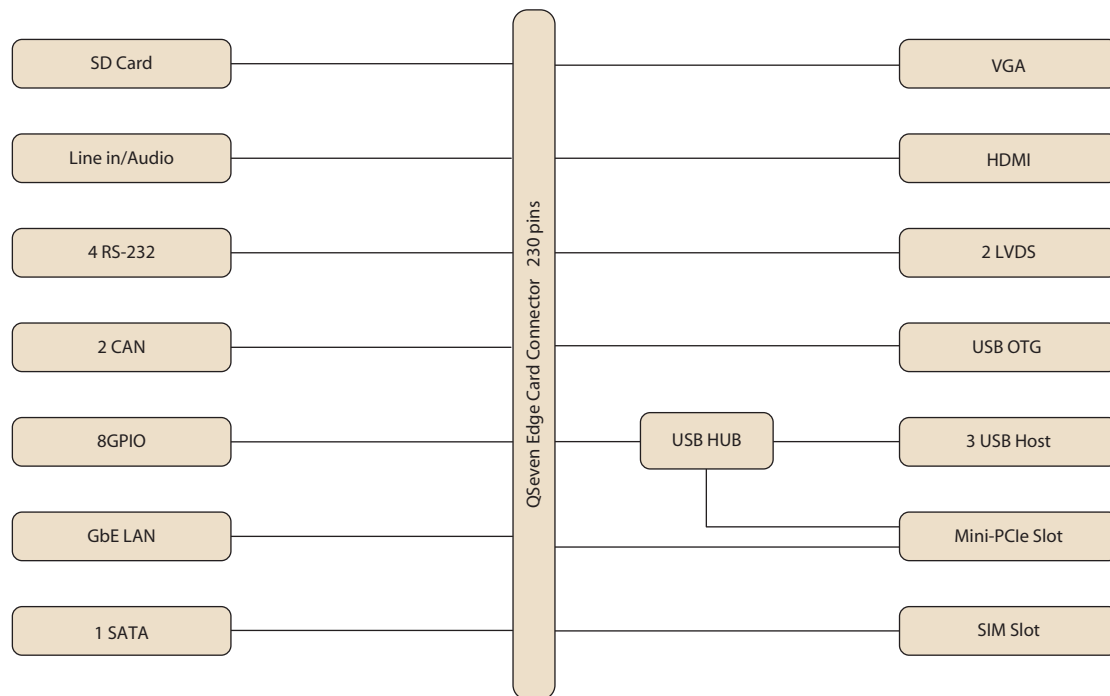
ROM-DB7500 is an Evaluation Carrier Board designed for Advantech's RISC Qseven module. It is compatible with the ROM-7420 Qseven module and provides a thorough environment for RISC module board evaluation. It supports wide range temperatures and 12V power input through AC/DC power adapter.

ROM-DB7500 is offered along with ROM-7420 carrier board design documents: Carrier Board Design Guide, layout checklist, schematic checklist, all ready for you to start your own carrier board design. With ROM-DB7500, you can easily learn the power of Advantech RISC Qseven module.

Specifications

Compatible Modules		Qseven v1.2 CPU module
Graphics	HDMI	1 HDMI TypeA
	LVDS	2 Single 24-bit LVDS
	VGA	1 D-Sub 15 with female connector
Ethernet	LAN	1 GbE with RJ45 connector
Storage	Flash	-
	SD	1 SD card slot
	SATA	1 SATAII Connector (with SATA-DOM support)
I/O	USB	1 USB mini Type B (OTG), 2 USB 2.0 Type A
	UART	4 2-wire RS-232
	Audio	1 2 port phone jack, support Line-in , Line-out
	CAN	2 CAN bus 2.0B ports, Differential mode +5V
	GPIO	1 DB9 female
	I ² C	-
	SPI	-
	Camera Input	-
	Keypad	-
	I ² S	1 pin header
Expansion	PCIe Slot	1 mini-PCIe
	System bus	-
Power Input	Power	12V DC Jack
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-DB7500-SCA1E	Development board for RISC Qseven Module series

Packing List

Part No.	Description	Quantity
1700020442-01	Debug Port Cable for ROM-7420	1
9696ED2000E	Debug Port for ROM-7420	1
1654909900	DB9 Loopback	1
1700004711	SATA Cable	1
1700021941-01	SATA Power Cable	1
1700021861-01	USB Cable Type A	1
1700019076	USB OTG Host Cable	1
1700019077	USB OTG Client Cable	1
1700021882-01	LVDS Backlight Cable	1
1700021883-01	LVDS Cable	1
1700100250	COM cable DB9	1

Optional Accessories

Part No.	Description
96PSA-A36W12R1	Adapter 100-240V 36W 12V 3A
1700001524	Power cord 3P UL 180cm
170203183C	Power cord 3P EU 183cm
170203180A	Power cord 3P UK 183cm
1700008921	Power Cord 3P PSE 183cm
EWM-W142F01E	802.11 b/g/n, AR9287, 2T2R, Full size Mini PCIe
EWM-C106FT01E	Cellular, HSPA/WCDMA/GPRS, Full Mini PCIe
1750007156-01	Cellular/GPS SMA Short JACK(9.5MM) L=100mm (3G Cable)
1750007050-01	WiFi RP-SMA short SMA Jack(9.5mm) to U.FL_100mm (WiFi Cable)
1750000318	EMI Antenna 2DBI 2.4GHz SMA (WiFi Antenna)
1750005865	Antenna L=10.9cm 500hm AN8921F-5701SM (3G Antenna)
SQF-ISDS1-2G-86E	SQFlash SD card SLC 2G, 1 CH (-40 ~ 85°C)