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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

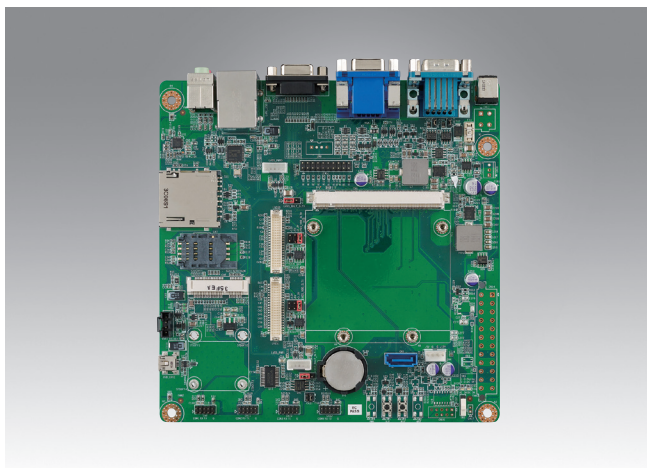
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# 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

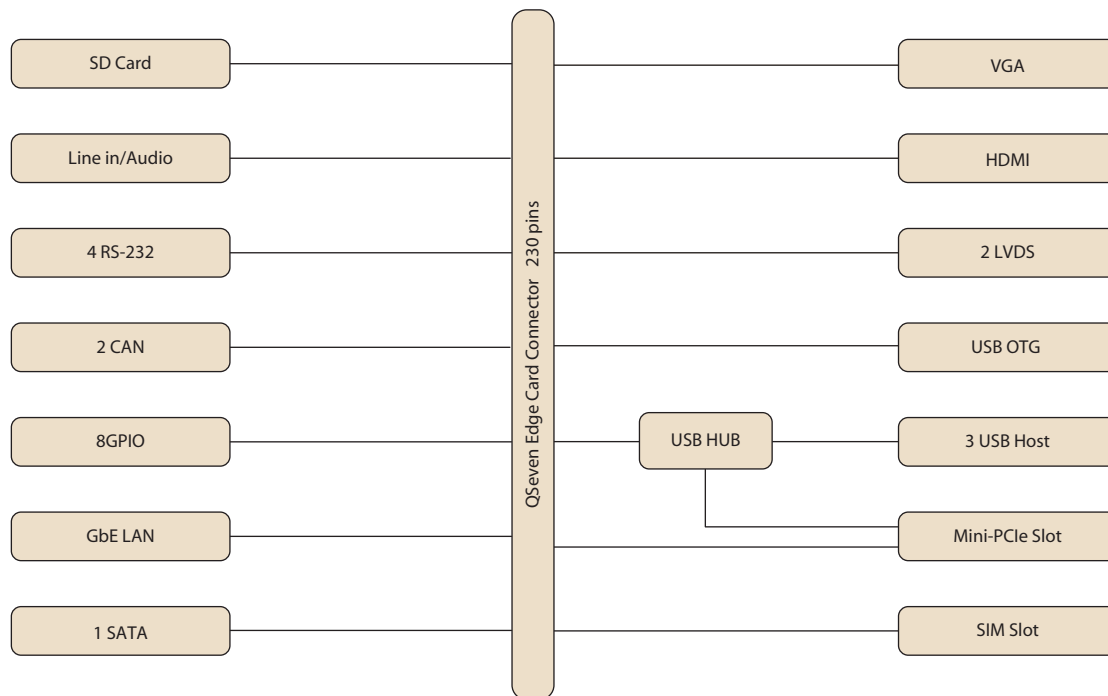
ROM-DB7500 is an Evaluation Carrier Board designed for Advantech's RISC Qseven module. It is compatible with the ROM-7420 Qseven module and provides a thorough environment for RISC module board evaluation. It supports wide range temperatures and 12V power input through AC/DC power adapter.

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
I/O	SATA	1 SATAII Connector (with SATA-DOM support)
	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 <sup>2</sup> C	-
	SPI	-
	Camera Input	-
	Keypad	-
	I <sup>S</sup>	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, HSUPA/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)