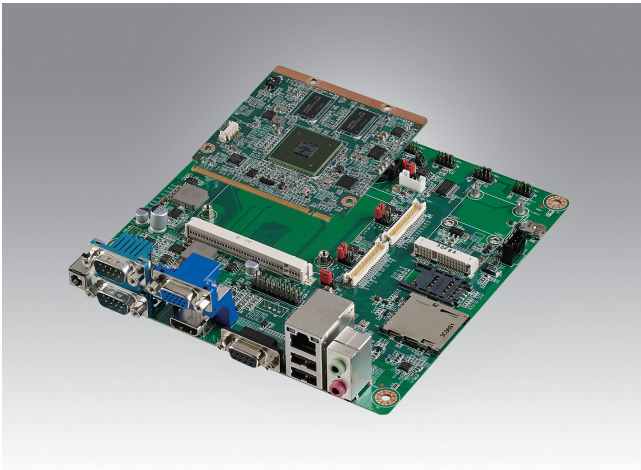


ROM-7420 Evaluation Kit

Development Kit for Qseven v1.2 Module
ROM-7420



Features

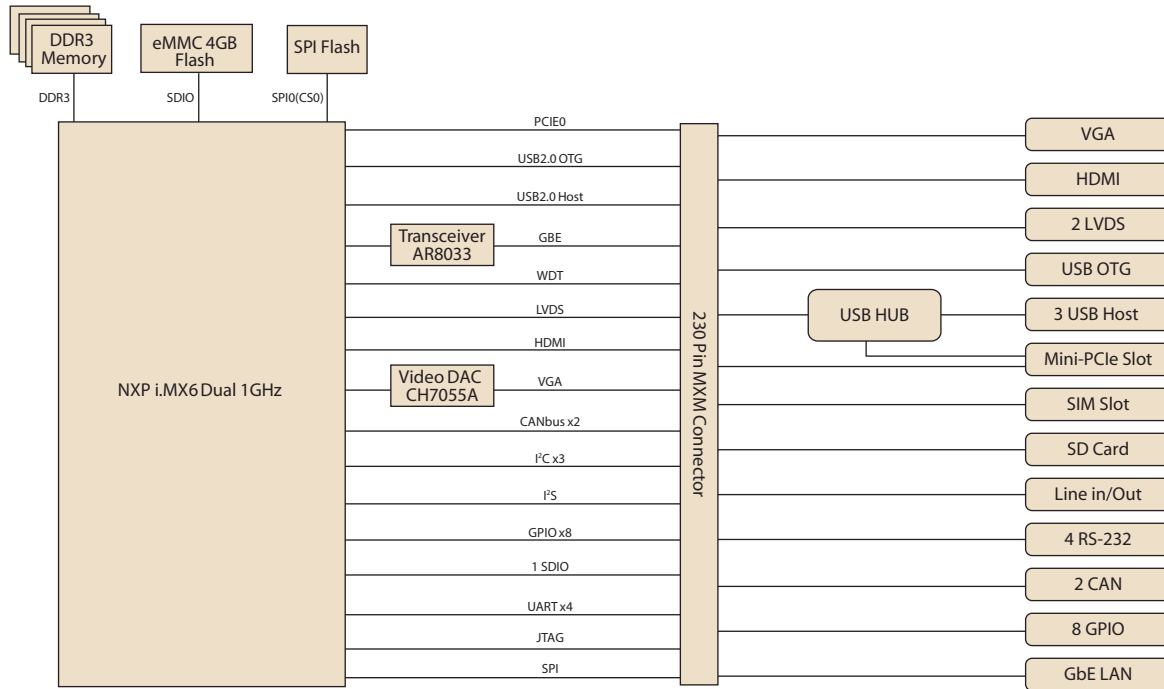
- Evaluation kit for ROM-7420
- High performance NXP i.mx6 dual-core 1GHz processor
- Onboard DDR3 1GB memory and eMMC 4GB
- 1 VGA, 1 HDMI, 2 24-bit LVDS
- 2 CAN, 4 UART, 8 GPIO, 2 USB, 1 SD/MMC
- Cable pack & panel included
- Evaluative image & test utilities built-in



Specifications

Form Factor		ROM-7420 Evaluation Kit
Processor System	CPU	NXP ARM Cortex-A9 i.MX6 Dual 1 GHz
Memory	Technology	DDR3 1066 MHz
	Capacity	On-board DDR3 1 GB
	Flash	4 GB eMMC NAND Flash for O.S. and 4 MB SPI NOR Flash for Advantech boot loader
Graphics	LVDS	2 24-bit LVDS, 1366 x 768 for 1ch; 1920 x 1080 for 2ch
	HDMI	1920 x 1080 at 60Hz
	Parallel RGB	-
	VGA	1920 x 1080 at 60Hz
	Graphics Engine	2 IPUs. OpenGL ES 2.0 for 3D, BitBlit for 2D and OpenVG 1.1
	H/W Video Codec	Decoder: MPEG-4 ASP, H.264 HP, H.263, MPEG-2 MP, MJPEG BP Encoder: MPEG-4 SP, H.264 BP, H.263, MJPEG BP
Ethernet	Chipset	NXP i.MX6 integrated RGMII
	Speed	1 10/100/1000 Mbps
RTC	RTC	Yes
WatchDog Timer		256-level timer interval, from 0 ~ 128 sec
I/O	PCIe	1 PCIe x 1
	SIM	1 SIM socket
	SATA	1 SATAII
	USB	3 USB 2.0, 1 USB 2.0 OTG
	Audio	1 Line in, 1 Audio out
	SPDIF	-
	SDIO	1 SD card slot
	Serial Port	4 UART (4 x 2 wire w/ 3.3V)
	SPI	1
	CAN	2 CAN bus 2.0B
	GPIO	8
	I ² C	-
	Camera Input	-
	System Bus	-
Touch	-	
Keypad	-	
Power	Power Supply Voltage	DC-IN +12V
	Power Consumption	3.16W (Max)
Environment	Operating Temperature	0 ~ 60 °C
	Operating Humidity	0% ~ 90% relative humidity, non-condensing
Mechanical	Dimensions (W x D)	170 x 170 mm
Operating System		Linux & Android
Certifications		CE/FCC Class B

Block Diagram



Ordering Information

Part No.	Description
ROM-DK7420-F0A1E	ROM-7420 Evaluation Kit

Packing List

Part No.	Description	Quantity
ROM-7420CD-MDA1E	ROM-7420 i.MX6 Dual core Qseven module	1
ROM-DB7500-SCA1E	ROM-DB7500 Qseven Carrier Board	1
9696ED2000E	Debug port adapter board	1
96LEDK-A070WV40NB1	AUO G070VW01-A0 7" LED panel	1
SQF-ISDS1-4G-82C	4G SD card(0 ~ 70 °C)	1
1960061913N001	Heat spreader for ROM-7420	1
96PSA-A36W12R1	Power Adapter 12V 3A	1
1700001524	US power cord 3P UL	1
1654909900	Terminal connector 9P female	1
1700004711	SATA Power cable	1
1700021941-01	SATA Cable 15P	1
1700019076	UAB Type A(F) to USB OTG cable 8CM	1
1700019077	UAB Type A(M) to USB OTG cable 150CM	1
1700021861-01	UAB Type A(F) to 4P USB pin header	1
1700019474	D-SUB 9P RS232/RS485 100CM	1
1700020442-01	Debug Port cable for ROM-7420	1
1700021882-01	LVDS backlight cable	1
1700021883-01	LVDS cable	1
1700100250	RS232 to DB9 cable	1

Optional Accessories

Part No.	Description
170203183C	Power Code 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)