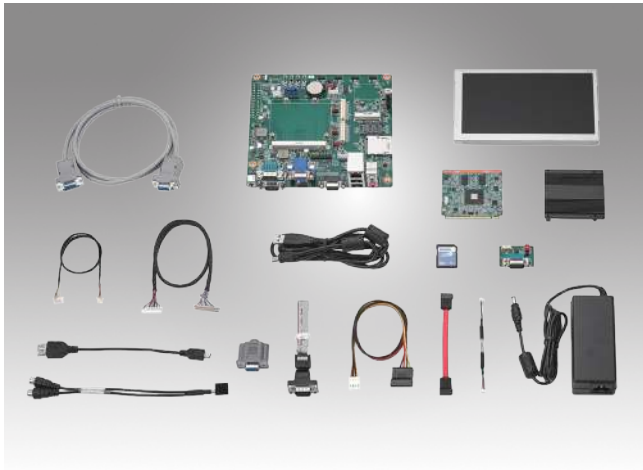


ROM-7420 Evaluation Kit

Development Kit for Qseven v1.2 Module
ROM-7420



Features

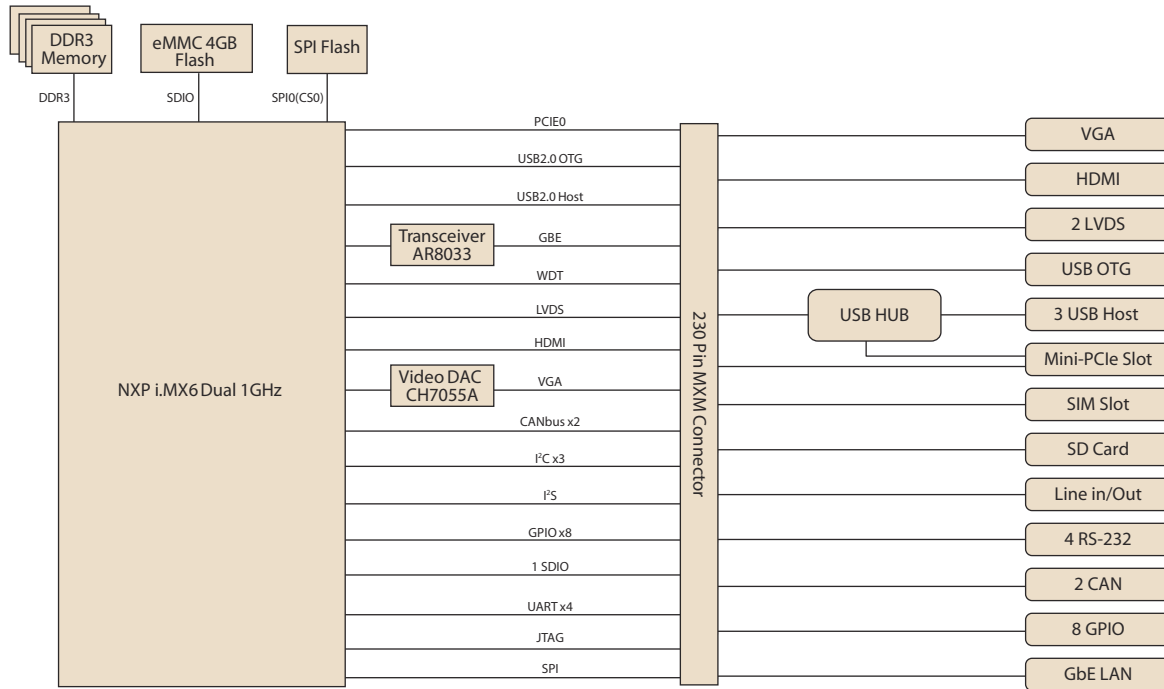
- Evaluation kit for ROM-7420
- High performance NXP i.mx6 dual-core 1GHz processor
- Onboard DDR3 1GB memory and eMMC 4GB
- 1 VGA, 1 HDMI, 2 24-bit LVDS
- 2 CAN, 4 UART, 8 GPIO, 2 USB, 1 SD/MMC
- Cable pack & panel included
- Evaluative image & test utilities built-in



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 IPU. 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
ROM-DK7420-F0A2E	ROM-7420 Evaluation Kit w/o power code for china

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
1700019146	Power Cord CCC 3P 2.5A 250V 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)