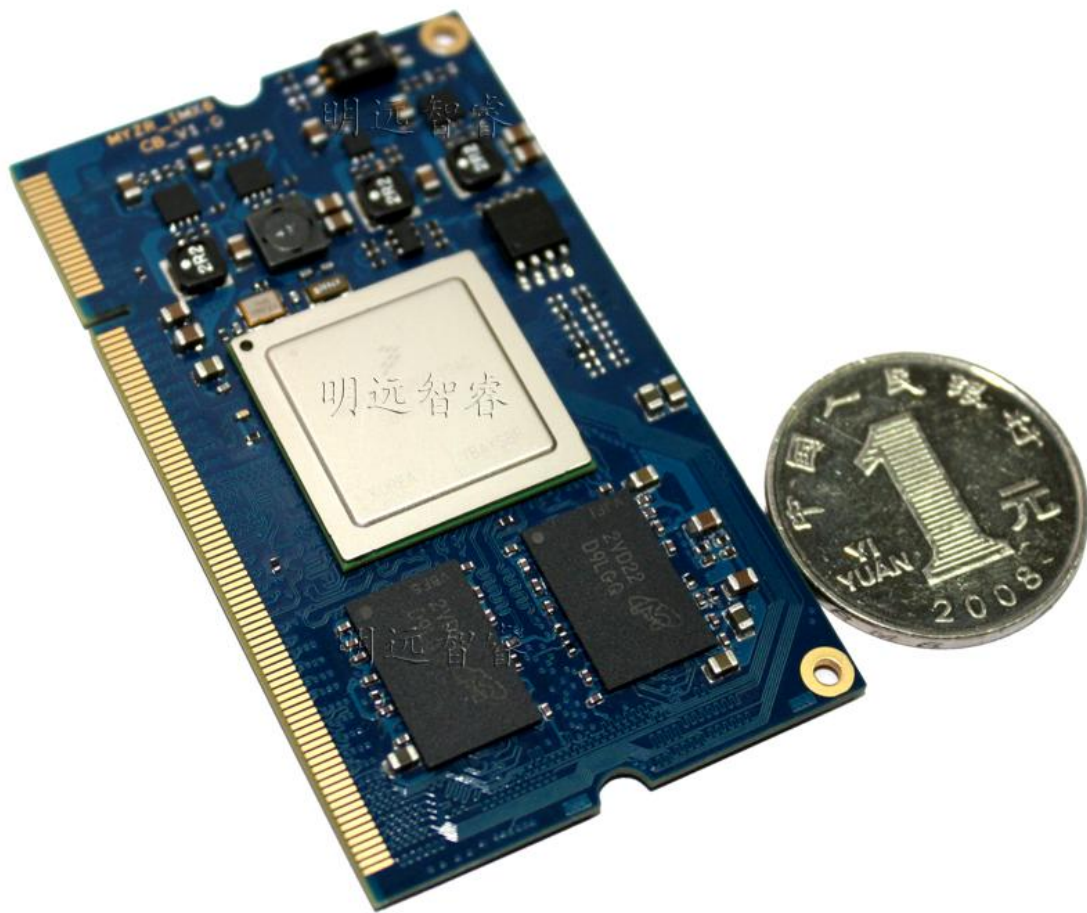


MY-IMX6_CoreBoard



Computer On Module

- Processor Freescale i.MX 6Quad, 1GHz
- RAM 1GB DDR3 SDRAM 64-bit
- ROM 4GB NAND Flash UP to 16GB
- ROM 2M SPI Nor Flash
- Power supply Single 5V
- Size 40mm SO-DIMM
- Temp.-Range
 - 0 to + 95C (Consumer)
 - 20 to + 105C (Extended Consumer)
 - 40 to +105C (Industrial)
 - 40 to + 125C (Automotive)

Key Features

- 10/100Mbps Ethernet
- One High Speed USB 2.0 ports
- Full HD LCD controller, 24bpp
- OpenGL ES 2.0 and OpenVG 1.1 hardware accelerators
- Multi-format HD 1080p60 video decoder and 1080p30 encoder hardware engine
- Two Camera Interfaces
- NEON MPE coprocessor
 - SIMD Media Processing Architecture
 - dual, single-precision floating point execute pipeline
- Unified 1MB L2 cache
- Several interfaces:
 - 5x UART, 2x SDIO, 1x SSI/AC97/I2S,
 - 3x I2C, 2xCSPI
- 3.3V I/O
- 2x Controller Area Network (FlexCAN)
- PCIe 2.0 (1-lane)

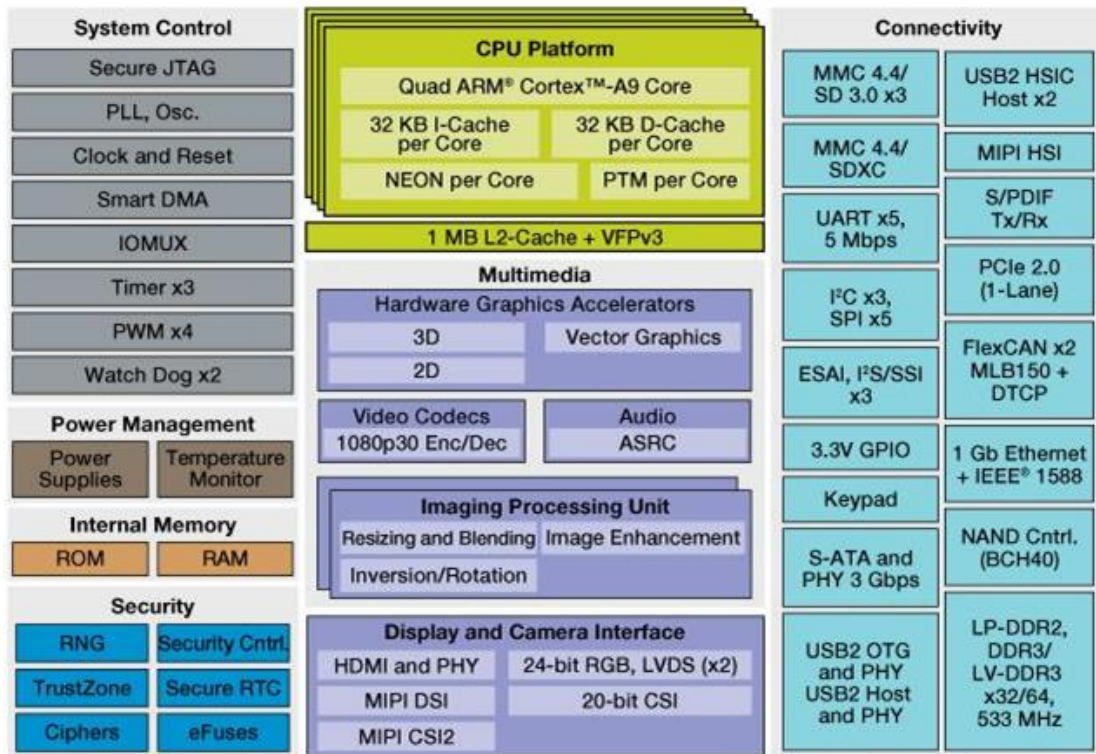
LVDS Option only:

- Dual LVDS display port
- SATA

OS Support

- Linux
- Android

i.MX 6Quad Applications Processor Block Diagram



Module

HDMI	1ch	1.4 port
LVDS	2 ch	8bit Mode up to 165 Mpixels/s
RGB	1 ch	24bit Mode
CSI	1 ch	8bit Mode
FEC	1 ch	10/100M
I2S/SSI/AC97	1 ch	up to 1.4 Mbps
PCI Express	1 ch	Gen 2.0
SD/MMC 卡	2 ch	4bit
SATA	1 ch	SATA II, 3.0 Gbps
USBOTG	1 ch	High Speed
USBHOST	1 ch	High Speed
CSPI	2 ch	High Speed
UART	5 ch	up to 4.0 Mbps
CAN	2 ch	1 Mbps each
PWM	1 ch	
I2C	3 ch	supporting 400 kbps
I/O	17 ch	Other not used also can use as GPIO
Watchdog	1 ch	

PIN OUT

1	GND	POWER	5V_IN	2	
3				4	
5				6	
7				8	
9				10	
11	SD4_DAT3	GPIO	POWER	3V_OUT	12
13	SD4_DAT1				14
15	SD4_DAT6				16
17	SD1_DAT0\CSI0_PWN				18
19	SD3_RST\SD3_WP				GPIO_4
21	KEY_COL2\SD3_CD_B	GPIO	EIM_BCLK	22	
23	EIM_D20		CSI0_DATA_EN	24	
25	CSPI2_CS0		UART2	UART2_CTS	26
27	CSPI2_RDY	UART2_RTS		28	
29	CSPI2_MOSI	UART2_TXD		30	
31	CSPI2_CLK	UART2_RXD		32	
33	CSPI2_CS1	UART3	UART3_CTS	34	
35	CSPI2_MISO		UART3_RTS	36	
37	MX6_ONOFF		ON/OFF	UART3_TXD	38
39	nRESET		nRESET IN	UART3_RXD	40
41	CSPI1_CS0	CSPI1	SD2	SD2_DATA2	42
43	CSPI1_MISO			SD2_DATA0	44
45	CSPI1_MOSI			SD2_CLK	46
47	CSPI1_CLK			SD2_DATA3	48
49	CSPI1_RDY			SD2_CMD	50
51	GND	POWER	SD2_DATA1	52	
53	SD3_DATA3	SD3	SATA	SATA_RXP	54
55	SD3_DATA2			SATA_RXN	56
57	SD3_CMD			SATA_TXN	58
59	SD3_CLK			SATA_TXP	60
61	SD3_DATA1		USBOTG	USB_OTG_OC	62
63	SD3_DATA0	USB_OTG_PWR_EN		64	
65	GND	POWER		USB_OTG_DN	66
67	USB_H1_PWR_EN	USBHOST		USB_OTG_DP	68
69	USB_HOST_DN			USB_OTG_VBUS	70
71	USB_HOST_DP		USB_OTG_ID	72	
73	USB_H1_OC		MINI_PCIE	PCIE_RXP	74
75	USB_H1_VBUS	PCIE_RXM		76	

77	CSI_D1M	MIPI_CSI		PCIE_TXP	78
79	CSI_D1P			PCIE_TXM	80
81	CSI_D0M			CLK1_P	82
83	CSI_D0P			CLK1_N	84
85	CSI_CLK0M			HDMI_D2P	86
87	CSI_CLK0P		HDMI_D2M	88	
89	UART1_RX	UART1		HDMI_CEC_IN	90
91	UART1_TX			HDMI_HPD	92
93	GND	POWER	HDMI	HDMI_D1P	94
95	CSI0_DAT17	CIS		HDMI_D1M	96
97	CSI0_DAT16			HDMI_CLKP	98
99	CSI0_DAT14			HDMI_CLKM	100
101	CSI0_DAT19			HDMI_D0P	102
103	CSI0_DAT18		HDMI_D0M	104	
105	CSI0_DAT13		I2C1	I2C1_SCL	106
107	CSI0_DAT12		I2C1_SDA	108	
109	CSI0_VSYNCH		AUDIO	AUD3_TXC	110
111	CSI0_PIXCLK			AUD3_TXD	112
113	CSI0_HSYNCH			AUD3_RXD	114
115	CSI0_DAT15			AUD3_TXFS	116
117	CAN1_TX	CAN1	I2C3	I2C3_SCL	118
119	CAN1_RX			I2C3_SDA	120
121	UART4_TXD	UART4	CAN2	CAN2_TX	122
123	UART4_RXD			CAN2_RX	124
125	UART5_RXD	UART5	CLKOUT	GPIO_0_CLKO	126
127	UART5_TXD		POWER	GND	128
129	LVDS0_TX2_P	LVDS0	LVDS1	LVDS1_TX1_N	130
131	LVDS0_TX2_N			LVDS1_TX1_P	132
133	LVDS0_TX0_N			LVDS1_TX0_P	134
135	LVDS0_TX0_P			LVDS1_TX0_N	136
137	LVDS0_TX3_N			LVDS1_TX3_N	138
139	LVDS0_TX3_P			LVDS1_TX3_P	140
141	LVDS0_CLK_N			LVDS1_TX2_P	142
143	LVDS0_CLK_P			LVDS1_TX2_N	144
145	LVDS0_TX1_N			LVDS1_CLK_N	146
147	LVDS0_TX1_P			LVDS1_CLK_P	148
149	SD1_DAT1	GPIO		SD4_DAT0	150
151	SD4_DAT7		SD4_DAT5	152	
153	SD4_DAT2		SD4_DAT4	154	
155	SD1_DAT2		SD1_CLK	156	

157	DISP0_DAT16	LCD	I2C2	I2C2_SCL	158	
159	DISP0_DAT23			I2C2_SDA	160	
161	DISP0_DAT11		LCD		DISP0_DAT19	162
163	DISP0_DAT15				DISP0_DAT20	164
165	DISP0_DAT13				DISP0_DAT6	166
167	DISP0_DAT8				DISP0_DAT21	168
169	DISP0_DAT3				DISP0_DAT2	170
171	DISP0_DAT1				DISP0_DAT10	172
173	DISP0_DRDY				DISP0_DAT4	174
175	DISP0_VSYNCH		POWER	GND	176	
177	DISP0_CONTRAST		FEC		ENET_REF_CLK	178
179	DISP0_CLK				ENET_nINT	180
181	DISP0_DAT18				ENET_RXD1	182
183	DISP0_DAT22				ENET_RX_ER	184
185	DISP0_DAT14				ENET_nRST	186
187	DISP0_DAT17				ENET_MDIO	188
189	DISP0_DAT9				ENET_CRS_DV	190
191	DISP0_DAT12				ENET_TX_EN	192
193	DISP0_DAT5				ENET_TXD1	194
195	DISP0_DAT7				ENET_RXD0	196
197	DISP0_DAT0				ENET_MDC	198
199	DISP0_HSYNCH				ENET_TXD0	200

Dimensional Drawing: (mm)

