FETMX6UL-C SoM

OVERVIEW

FETMX6UL-C system on module is based on NXP Cortex-A7 featuring CPU i.MX6UltraLite with frequency of 528MHz. The SoM has two 80-pin connectors for connection with carrier board and unique PMU make it even lower power than ARM9. It has a variety of hardware sources can support up to 8 UART, 2 Ethernet ports, 2 CAN and other interface. Both commercial grade and industrial grade are optional. 512MB RAM and 4GB eMMC for the commercial grade one, and 256M RAM 256M NAND Flash for the industrial grade one.

SoM FETMX6UL-C Features			
CPU	NXP i.MX6Ultra Lite	CAN	2
Architecture	Cortex-A7	IIC	4
Frequency	528MHz	SPI	4
RAM	256MB, 512MB	EIM	16-bit data bus, 16-bit address us
Flash	256MB NAND Flash, 8GB eMMC	Camera	1x DVP
OS	Linux3.14.38, Linux4.1.15	SD/ MMC/ SDIO	2
Voltage input	5V	USB	2x USB2.0 OTG
Working Temp	-40℃~ +85℃; 0℃~ +70℃	PWM	8
Package	2x 80-pin connector, pitch 0.8mm	SPDIF	1
Dimensions	40x 50mm	JTAG	1
Video codec	software codec	EINT/ GPIO	supported
Display	1x RGB888	Keypad	1, 8x8 keypad
IIS	3	ADC	10
Ethernet	2x 10M/ 100Mbps, RJ45 connector	QSPI	1
UART	8	ISO7816-3	2

eMMC version   NAND Flash version

OKMX6UL-C Carrier Board Features

Display	1xRGB888	WiFi& BT	1
Audio	1x Phone, 1x MIC, 2x Speaker	ADC	4, for resistive touching
Ethernet	2, 10M/ 100Mbps	ESAM/PSAM	1, multiplexed with camera
UART	2x 5-lane	RTC	supported
RS232	1, debug port	JTAG	1
CAN	2	EINT/GPIO	supported
IIC	2	Keys	1
Camera	1x DVP	DIP	booting mode selection
SD/MMC/SDIO	1, SDIO is multiplexed with SD card	LED	2
USB	3x USB2.0 Host, 1x USB2.0 OTG	Voltage input	DC5V