



# FETMX6Q-C SoM

# FETMX6DL-C SoM

## OVERVIEW



FETMX6Q-C and FETMX6DL-C are system on modules designed based on NXP/Freescale Cortex-A9 i.MX6Quad and i.MX6DualLite processors with main frequency up to 1.2GHz, this SoM is with 320 pins and it is designed with 12-layer ENIG PCB and ultra thin board-to-board connectors with height only 2mm and golden ratio dimensions of 40\*70mm, all of these to make it to be applied more widely.

### SoM FETMX6Q-C/ FETMX6DL-C Features

CPU	NXP i.MX6Quad/ i.MX6Dual Lite	UART	5
Architecture	Cortex-A9	CAN	2
Frequency	1.0GHz	IIC	3
RAM	1GB DDR3(2GB optional)	SPI	5
Flash	8GB eMMC	EIM	32-bit data bus, 27-bit address us
OS	Android4.4.2, Android6.0 Linux3.0.35, Linux4.1.15	Camera	1x DVP, 1x MIPI-CSI
Voltage input	4.2V	SD/ MMC/ SDIO	3
Working Temp	0°C~ +70°C; -40°C~ +85°C	USB	1x USB2.0 Host, 1x USB2.0 OTG
Package	ultra thin connector	SATA	1, only available for FETMX6Q-C
Dimensions	40x 70mm	PCIe	1
PMIC	MMPF0100NPEP	PWM	3
GPU	Vivante GC355 / Vivante GC320	MLB	1, Media Local Bus
Video codec	hardware codec	SPDIF	1
Display	1x RGB, 2x 8-bit LVDS, 1x HDMI, 1x MIPI-DSI	JTAG	1
IIS	4	Ethernet	1x 10M/ 100M/ 1000Mbps



## OKMX6Q-C/ OKMX6DL-C Carrier Board Features

Display	1xRGB, 2x 8-bit LVDS, 1x MIPI-DSI, 1x HDMI	USB OTG	1, USB2.0
Audio	1x Phone, 1x MIC, 2x Speaker	SATA	1, only for OKMX6Q-C
Mini PCIe	1, for 3G/ 4G connectivity	Ethernet	1, 10M/ 100M/ 1000M, RJ45 connector
UART	4, 3x 3-lane, 1x 5-lane	WiFi& BT	1
RS232	1, debug port	MLB	1
CAN	1	IrDA	1, suspended
IIC	3	RTC	supported
SPI	1	JTAG	supported but suspended
EIM	supported	EINT/GPIO	supported
Camera	1x DVP, 1x MIPI-CSI	Key	4
SD/MMC/SDIO	2	DIP	booting mode selection
USB Host	2, USB2.0	Voltage input	DC5V

## TARGET APPLICATION

Car electronics, digital signage, financial device, HMI, in-flight entertainment, industrial control, medical, instrument, smart city, commerce electronics.

