I.mx6UL Development Board

Model: MY-IMX6-EK140P

acceleration sensor

3D digital gyroscope

3D magnetic sensor

display module(display panel and

touch panel)

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Product Details

MY-IMX6-EK140(i.MX6ul)

Development board are made up of devices below:

· MY-IMX6-CB140 （a core board）

· MY-IMX6-MB140(a mother board)

instruction: core board is directly welded to the base board ,which is not

disassembled.

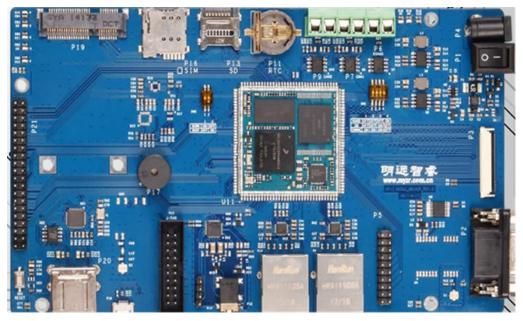**Development board accessories**

MY-IMX6-EK140 is standard,no accessories.The complimentary part is below:

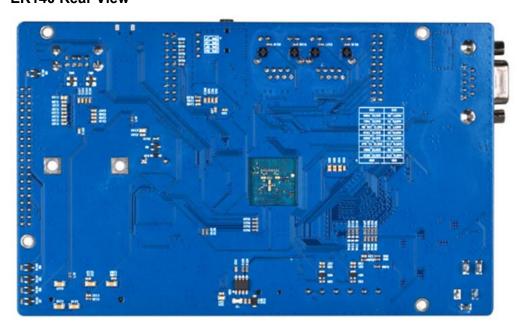· A set of serial module (with dupont line)

Development board optional accessories

· acceleration sensor

· 3D digital gyroscope

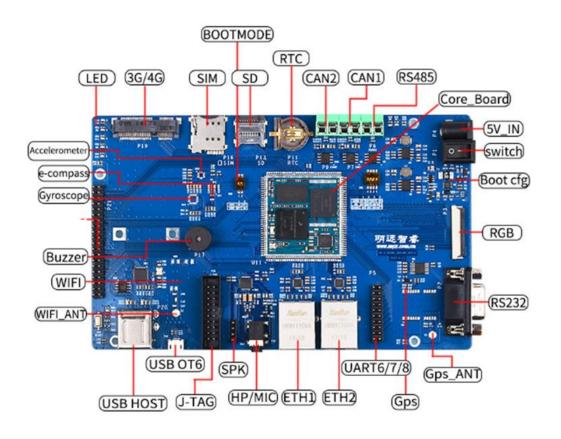· 3D magnetic sensor

· display module(display panel and touch panel)

EK140 Front View

EK140 Rear View

MY-IMX6-EK140 interface

No.	Interface	Function	Interface form	Silk screen
1	USB OTG	MFG Tool burning input port and USB OTG	Micro USB	J4
2	ENET	10/100-Mbps ethernet	RJ-45	P1
3	5V_IN	power in	Micro USB	J3
4	5V_IN	power in	single row pin(2pins)	J2
5	DEBUG UART	debug serial port	singla row pin(4 pins)	J1
6	BOOT Device	boot device option	dial switch (4bit)	SW1
7	TF	TF card	TF card boot(flip type)	U2

8	LCD DISPLAY	LCD display interface	FPC socket(flip type,40pins)	U1
9	BOOT MODE	boot mode option	dial swtich(2bit)	SW2
10	RESET	reset button	key(2 pins)	SW3
11	FXLS8471Q	acceleration sensor	none	U8
12	FXAS21002CQ	3D digital gyroscope	none	U10
13	MAG3110	3D magnetic sensor	none	U9
14	TS	resistance touch screen interface	PFC socket （drawer-type， 4 Pin	J5
15	J6	function socket	dual row socket	J3
16	J7	function socket	dual row socket	SW1
17	USER LIGHT	user LED light	LED light(4 units)	D*
18	POWER LIGHT	power indication light	LED light(2 units)	D*

Application Area

Robot and Industrial automation

Linux systems with hard real-time functions are integrated with industrial interfaces such as CAN and RS485. MY-I.MX6 module is an ideal solution for robot and industrial automation applications. It can be implemented more quickly and flexibly on Linux. Or using a variety of available GPIOs, connect to your visual system via a camera interface, or safely back up the data in the process through the Ethernet cloud. Whatever your application is, We are pleased to provide product consulting services when you select the appropriate MY-I.MX6 computer module.

Voyage

Harsh anti vibration and can operate in industrial temperature range, has been the ship equipment used to select computer module prerequisites for our products by customers. The module is integrated into the sonar system, fleet management, communication unit and marine diesel engine controller. MY-I.MX6 core module also can meet the most stringent requirements of marine certification agency.

Laboratory equipment

From mass spectrometers to electronic scales. MY-I.MX6 core modules can be widely used in scientific laboratory instrumentation products of market leaders in their respective fields. Depending on the functionality, processing power, and interfaces you need for the device you are designing. Or the amount of memory may be an important feature of the modular product you choose. Do you need to output to a particular type of display or do the product receive data from different types of sensors? For each of these modules, you need to select a different feature. You may need a touch screen interface, a camera interface for USB hosts and clients, and multiple SD card interfaces. Internal solid state storage, etc. Please contact us, we will tell you which modules best meet your requirements.

Retail & Ticketing

Electronic scale, bar code reader, inventory management system and cash register, core modules can also be used in the array of retail equipment

A large number of tickets are allocated and used in parking lots, toll roads and other places. Not only for the tickets, but also for collecting the appropriate fees at the same time of recycling, the commonly used water heaters and coffee machines in restaurants, catering facilities can help guests get their required

Medical & Health care

From hospital monitoring to home care, embedded computers are widely used in the field of medical devices. Do you want to get complex results from graphics that are easy to understand on the screen? Or, you need to compute the data from a variety of sensors. Either way, the MY-I.MX6 core module is designed and manufactured according to the principle of maximum reliability. Many of our industry-leading customers have successfully obtained 3C and CE products certification

Environmental monitoring

Although the MY-I.MX6 core module is powerful in computing, it has very low energy consumption and no fan applications. They are perfect solution for handheld devices, low maintenance remote systems or smart sensors. Various sensor input channels, coupled with the advantages of easy connectivity to common networks and low power consumption. Make MYZR

series module as the best choice for outdoor environmental monitoring applications, such as tsunami warning system. This module is for many interfaces, such as I2CU SPI. RS232 and others provide convenient connections.

Technical support and updating

Technical support scope

1. The company's products of software and hardware resources to provide consulting;

2. The company's products software, hardware manual use process encountered problems;

3. The company provides ODM ODM after-sales technical support;

4. Has purchased the company's product user's data to be lost, after the renewal obtains again;

5. The company's products fault judgment and after-sales maintenance services;

Technical discussion scope

1. Modification and understanding of source code;

2. How to transplant the operating system;

3. Software and hardware problems encountered by users in their own modification and development;

These are non-essential problems

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