

深圳金亚太科技有限公司

Shenzhen Geniatech Co., Ltd.

Software User Guide

MODEL: XPI_i.MX8MM

V1.0





REVISION HISTORY

DATE	REVISION TYPE	REVISION #	COMMENTS	INITIALS
09/29/2021	Major	V1.0	Initial version	JY

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1. Install Yocto on the XPI_i.MX8MM

XPI_i.MX8MM currently supports the system: Linux version 4.14.98

2. Installing Yocto

2.1 Installing the image from a Host-pc

2.1.1 Installation prerequisites

- Type-c cable
- Host PC
- XPI_i.MX8MM Board



2.1.2 Step1: Download the Yocto images and Tools from the

Geniatech website

https://www.geniatech.com/download/xpi-imx8mm/;

2.1.3 step 2. Download Driver in Host PC

Download the Driver from below website:

https://www.driverscape.com/download/hid-compliant-vendor-defined-device

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2.1.4 step 3. Bring the board into burn mode

1) Set the S1 switch:

1-on 2-off 3-on 4-off 5-on 6-off 7-on 8-off



2) One end of the Burn Line is connected to the computer and the other is connected to the burn port of the board. The computer's device manager will load the new device; (The Burn line can be powered, so type-c cable access is not necessary)







2.1.5 step 4. Flash the Yocto image

1)Unzip the file



imx8mm-yocto_RNA200114-xpi_hwA01_20210713175206.tar.gz .Double-click flash.bat, the

burning progress is loaded, please wait for the burning to complete.

Name	Date modified	Туре	Size
lash.bat	2021/7/13 17:52	Windows Batch File	1 KB
fsl-image-qt5-validation-imx-imx8mme	2021/7/13 17:52	SDCARD File	3,121,152 KB
imx-boot-imx8mmevk-sd.bin-flash_evk	2021/7/13 17:52	BIN-FLASH_EVK File	1,378 KB
uuu.auto	2021/7/13 17:52	AUTO File	2 KB
🔳 uuu.exe	2021/7/13 17:52	Application	914 KB



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2.1.6 Step 5: Reboot and enjoy!

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1) Aft	er burn	ing, ren	nove the	e bu m l	lire	t he S	satech
1-off	2-on	3-on	4-off	5-on	6-off	7-on	8-off
The device is a second by True - her defends and the second range her disates							

The device is powered by Type-c by default, and the screen can be displayed when connected to

the display through the HDMI OUT port.

3. System function introduction

3.1 Test Methods

Test can be done through serial line, SSH, Wayland terminal.

3.1.1.1 Wayland terminal



3.1.1.2 Serial Line

The board and the computer can be connected via USB to serial port; the interface definition is

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shown in the figure; Baud rate: 115200 Data bits: 8



3.1.1.3 SSH

Get the device IP first. When the computer and the device are in the same local area network, they

ession Options - 192.168.1.	5 Gentato	90
Category:		
- Connection	55H2	
Connectorn Incogn Actions Srl2 Srl2 Srl2 Port Forwarding Remote/X11 Terminal Pertente/X11 Terminal Modes Emacs Mapped Keys Advanced Appearance ANSI Color Window Log File Printing X/Y/Zmodem	Hostname: 192.168.1.136 Port: 22 Firewall: None Username: root Authentication Password Publickey Key exchange Key exchange Key exchange Key exchange Key exchange	

3.2 WiFi & Ethernet

3.2.1 Ethernet



3.2.2 WiFi

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Command operation:

iwlist scanning |grep ESSID nmcli dev wifi con Xiaomi_B5EF certain WiFi in the environment nmcli dev status nmcli dev dis mlan0

//Query nearby WiFi signal
//Connect to WiFi ; Xiaomi_B5EF is the SSID of a

//View current device WiFi status //Disconnect current connection



PS:

1.nmcli dev wifi con Salen password 1111111//Use this command for WiFi encryption; Salenis WiFi SSID11111111 is WiFi password

2. Please connect the antenna.

3.3 Bluetooth

Command oper	ration:	
bluetoothctl		
power on		
agent on		
default-agent		
scan on	//Scan nearby d	levices
devices	//View the search	hed devices
connect 14:32:	D1:CD:00:B3	//Get the device mac, connect with the device
disconnect 14:3	32:D1:CD:00:B3	
exit //Exit o	peration	

PS:

1. For devices that have been connected, you need to remove the device through the command

'remove 7C:A1:77:78:ED:E1' before you can connect again)

2. Please connect the antenna.





3.4 Line OUT

switch sound card: pactl set-default-sink 1 (sound is output from HDMI

OUT)

pactl set-default-sink 1 (speaker output)

PS:

The default sound is output from HDMI OUT;