

XR1 HDK

User Manual

Ver. A





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Included Items

HDK Board	Battery
Model Name: XR1 HDK	Purpose: Power Source
Model: SQ.XR1-0AG LTC:201001GA	Ror ART HOK Rating; 36V 330mAn 12 25Wh Ceil: Japan ceil 1850 Cate code: 1945



a module solution provider

Function Block

Power on for HDK

- Plug in the Battery Pack
- Press Power Switch

Type C connective

- USB 3.1
- USB Charging / DP function
- USB 2.0
- USB OTG support

Micro HDMI connective

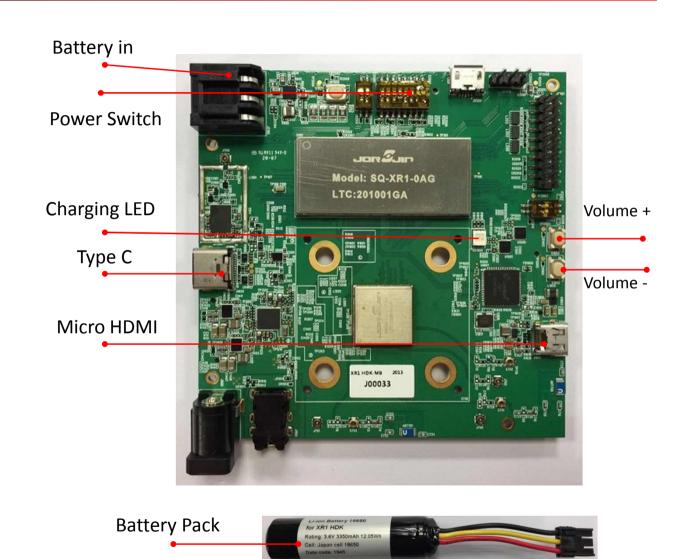
• External HDMI display

Volume control

- + HIGH
- - LOW

Battery Charging LED

- Green (90%~100%)
 - Full battery
- Lite Green (50%~ 90%)
 - Charging active I
- Lite Red (30%~ 50%)
 - Charging active
- Red (2%~30%)
 - No battery power





Function Block

Micro-B

• For UART Debug

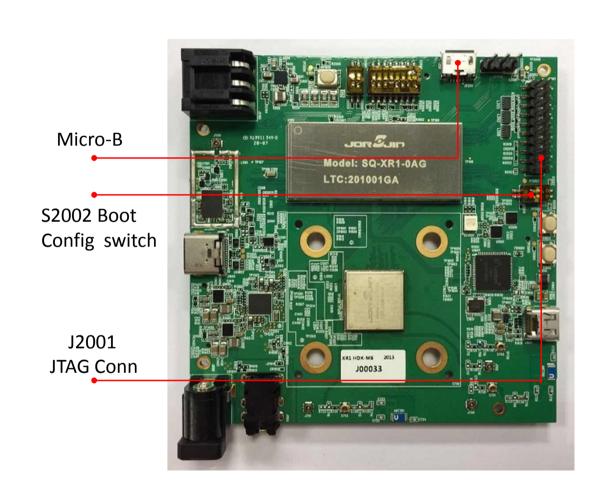
Boot config switch (S2002)

- S2002
 - FORCE_USB_BOOT

Switch 2	Switch 1
(on)	(on)
JTAG_PS_	FORCE_U
HOLD	SB_BOOT
(High)	(High)

JTAG Conn (J2001)

- Jump J2001
- Debug UART





Config Switch

Boot Config switches

Boot config switches (S2000)

- Default → off
- Switch to ON for
 - → As Below function

SW 1 (on)	SW 2 (on)	SW 3 (on)	SW 4 (on)	SW 5 (on)	SW 6 (on)	SW 7 (on)	SW 8 (on)
Force USB	GRFC4	TS_RESET	LASER_RI	BOOT_CO	HAPT_PW	BATT_TH	BATT_ID
boot			NG_EN	NFIG_3	М	ERM	

Config switches (S2001)

- Default
 - \rightarrow off
- Switch to ON for
 - → As Below function

SW 1 (on)	SW 2 (on)
N CBLPWK_	USB_VBU S_FORCE D_BYPASS

S2001 (off) \$2000 (off) Model: SQ-XR1-0AG LTC:201001GA

Config switches



Config Jumper

UART jumper 3 PIN

• Debug UART

UART Jumper

Pin Number	Pin Name	Alt-Function	Туре	Function Description
J2000-I01	USB_UART_TX	GPIO_51	D1	QUP 12,lane 3 : UART_TX
J2000-I02	USB_UART_RX	GPIO_52	D0	QUP 12,lane 3 : UART_RX
Power Groun	Power Ground	Power Ground	Power G	Power Ground

Audio connector (3.5mm)

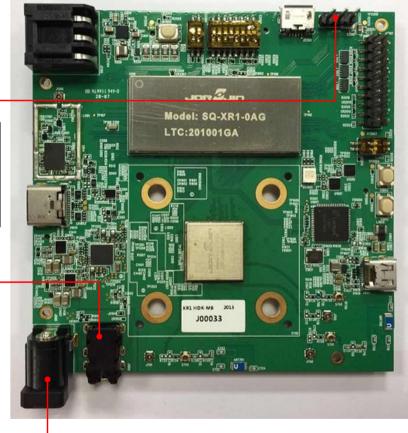
- Speaker out
- MIC

DC in connector

• 12V / 3A Battery charging from DC adaptor

AUDIO connector

DC IN connector





Extension Connectors

160 Pin connector

• MIPI CSIx3

80 Pin connector

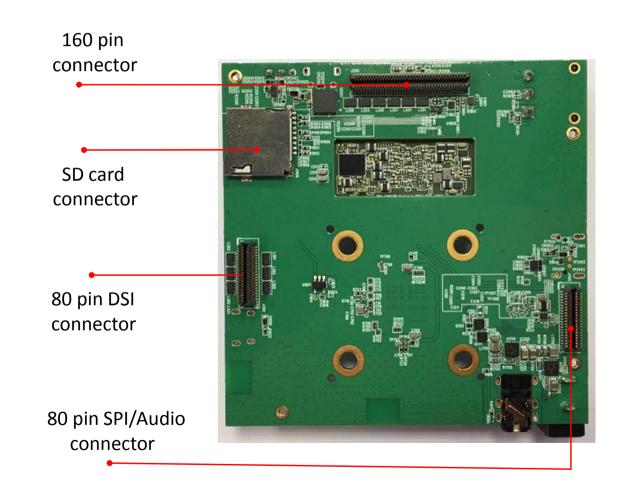
• MIPI DSIx2

80 Pin connector

- SPI X 2 / I2C
- Audio

SD card connector

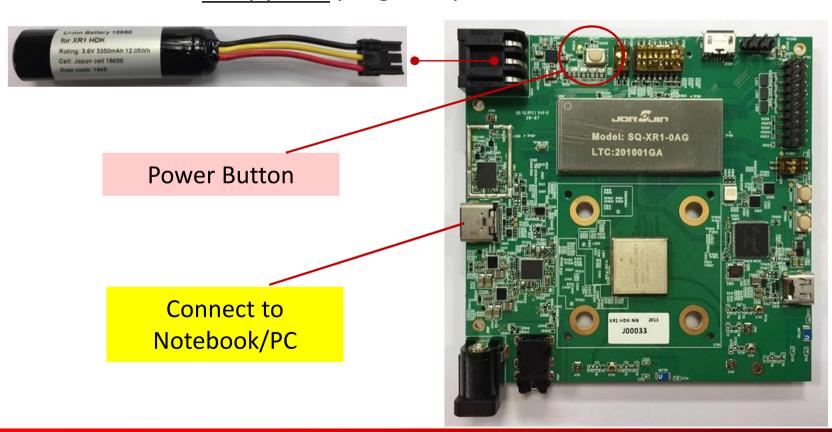
• SD storage





Turn On

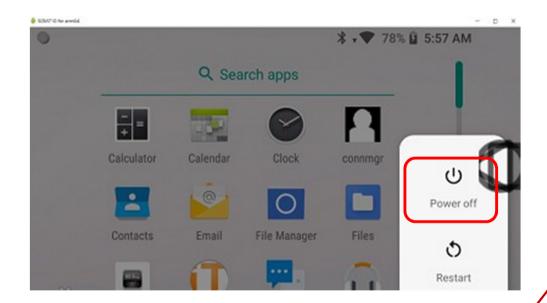
- 1. Connect the battery to battery jack.
- 2. Press the power button around 2 seconds to turn on the system.
- 3. Connect Type-C cable to Notebook or PC.
- 4. Run ADB's scrcpy.exe program. press Power Button when screen off.





Turn Off

Long press the power button around 2 seconds to turn off the system. You can see the power off menu as the Android following picture. Choose "Power off" to shut down the device.



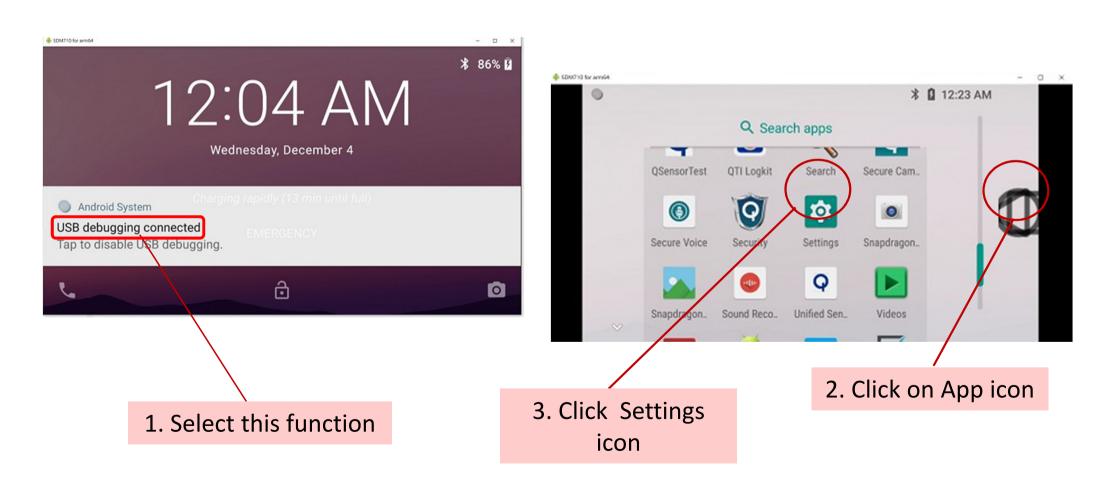
Press
Power Button





Go to App setting

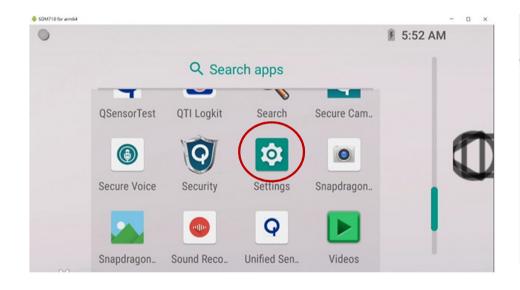
Select "USB debugging connected", Enter App icon to select Settings function.

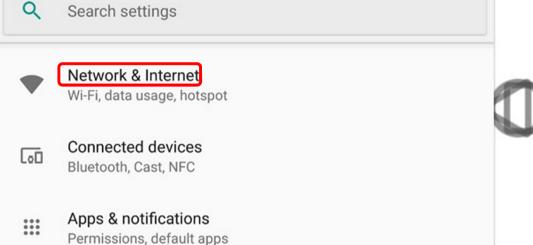




Connect to WiFi

Settings > Network & Internet

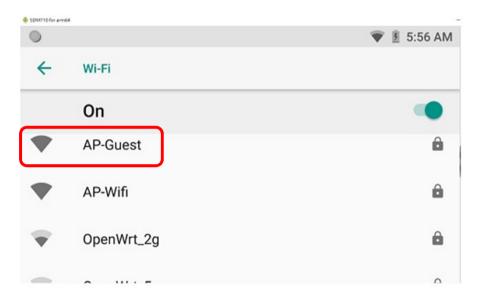


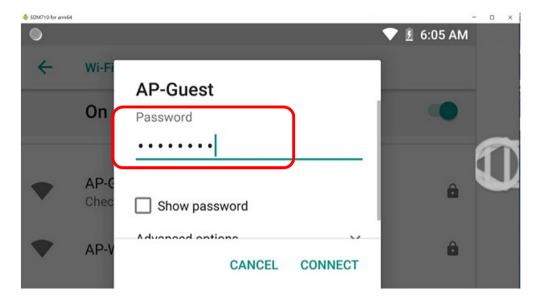




Connect to WiFi

On > Password > Connected



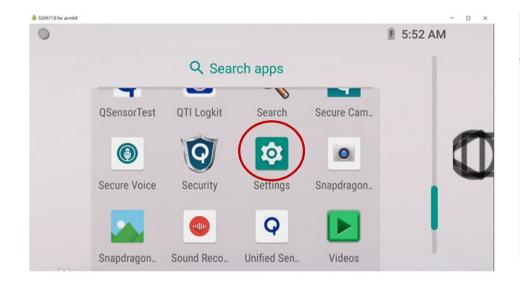


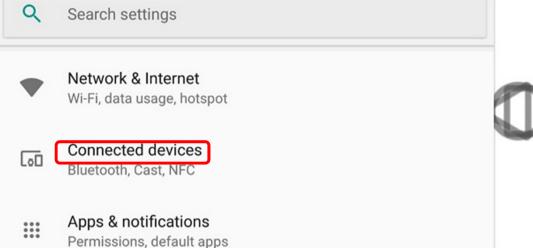




Setup Bluetooth Function

Settings > Connect devices

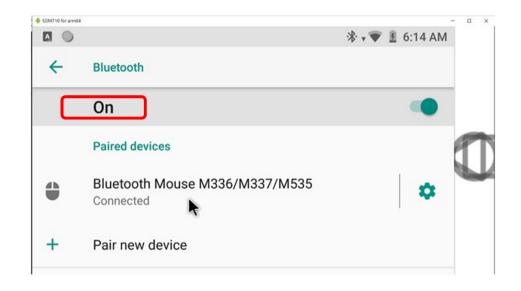


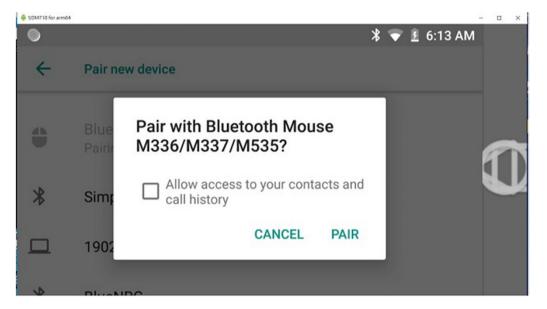




Setup Bluetooth Function

Bluetooth > On > Connected







Connect to Smart Glasses

Smart glasses devices > Connect to Type-C port



Connect to Type-C port





Connect to Micro HDMI

HDMI devices > Connect to Micro HDMI port



On-Lap Monitor

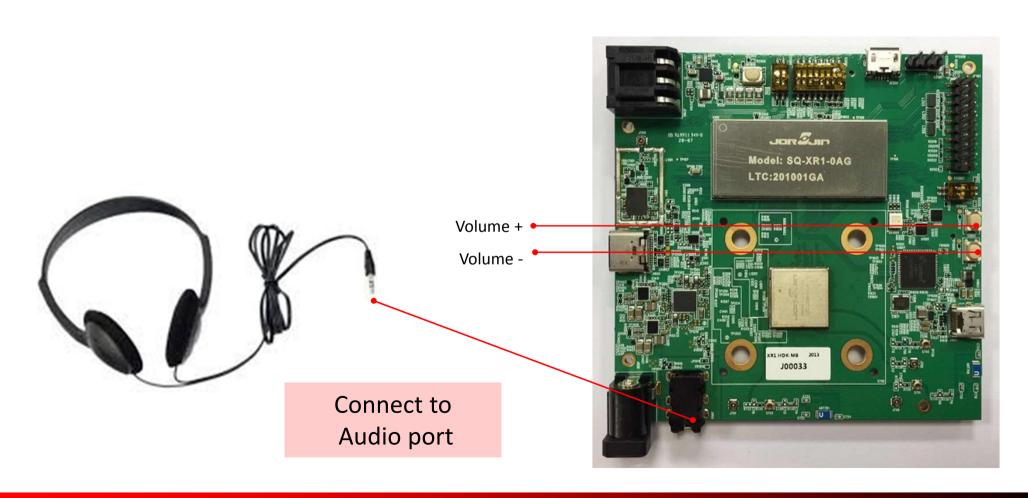
Connect to
Micro HDMI port





Connect to Headset

Audio devices > Connect to Audio port





Connect to DC Adapter

DC PWR devices > Connect DC adapter to DC-IN port



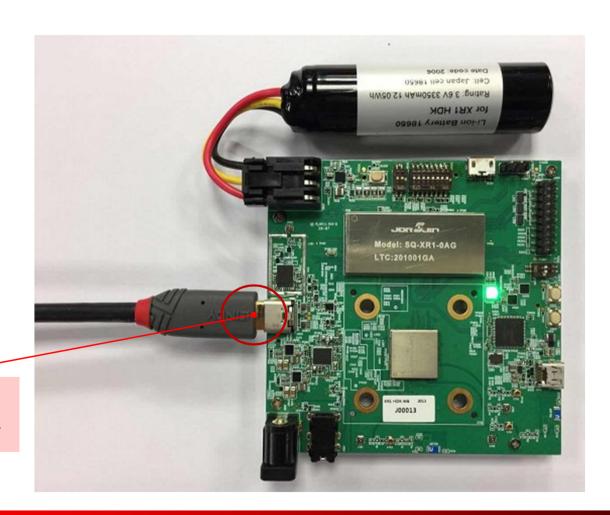
Connect to
DC port 12V / 3A
(Option)





Charging the Battery

Option 1. **Type-C**: Connect w / Type-C cable

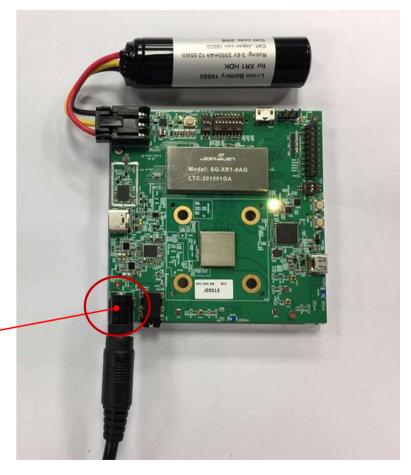


Type-C Connector



Charging the Battery

Option 2. DC jack: Connect w / DC Adapter



DC-IN Connector

Note:

USB-C DP mode temporarily not functional in this configuration



Charging the Battery

Reminder for charging

- **1. Priority**: only one of Type-C or DC charger can be chosen for charging. When using DC charger, Type-C supports data output only (not DP mode)
- **2. Limitation**: If the battery is over discharged (voltage <2.5V), the system can only boot up with Type-C and must be charged by USB until it reaches the safe value of 3.2V.
- 3. **Limitation:** DP mode can temporarily be only supported when device is powered from the battery.



Control Device by Vysor

Vysor lets you view your Android-based device from your desktop computer. Vysor mirrors the display image of the Android device. It helps developers to view and debug their Android devices more easily.

