

LILLIPUT®

# 7 inch IP67 Rugged Tablet



## | PC-7108 |

This rugged Tablet combine advanced computing power with 7" hardened displays to provide a modular solution that enables easy customization and simplified upgrading while reducing maintenance costs. It is designed for use in monitoring and controlling processes in industries or fleet management obligated to meet high stability standards.



Integrated Cable



Removable Battery



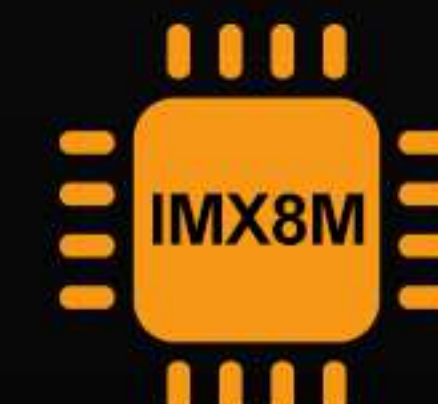
IP67 Rating



ISO7637-2



MIL-STD-810G



i.MX 8M Mini



Android 9.0

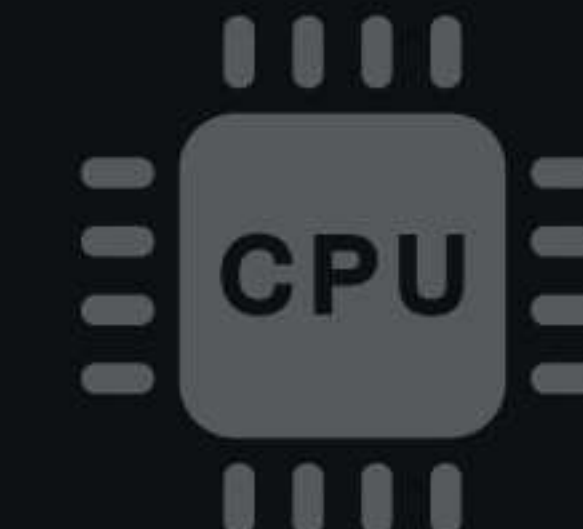


The i.MX 8M Mini is embedded multicore applications processor built using advanced process technology, providing more speed and improved power efficiency. With industrial level qualification and backed by longevity program, the i.MX 8M Mini may be used in any general purpose industrial and fleet management application.



### Operating System

Android 9.0



### i.MX 8M Mini

i.MX 8M Mini Cortex®-A53 1.6GHz Quad-core



### Memory

RAM / ROM: 2GB+16GB or 4GB+64GB



### WiFi & Bluetooth

WiFi: IEEE 802.11 a/b/g/n/ac, 2.4GHz & 5GHz  
Bluetooth: 5.0, 2402MHz~2480MHz



### Cellular Network

LTE, DC-HSPA+, WCDMA, GSM



### GNSS

GPS, GLONASS



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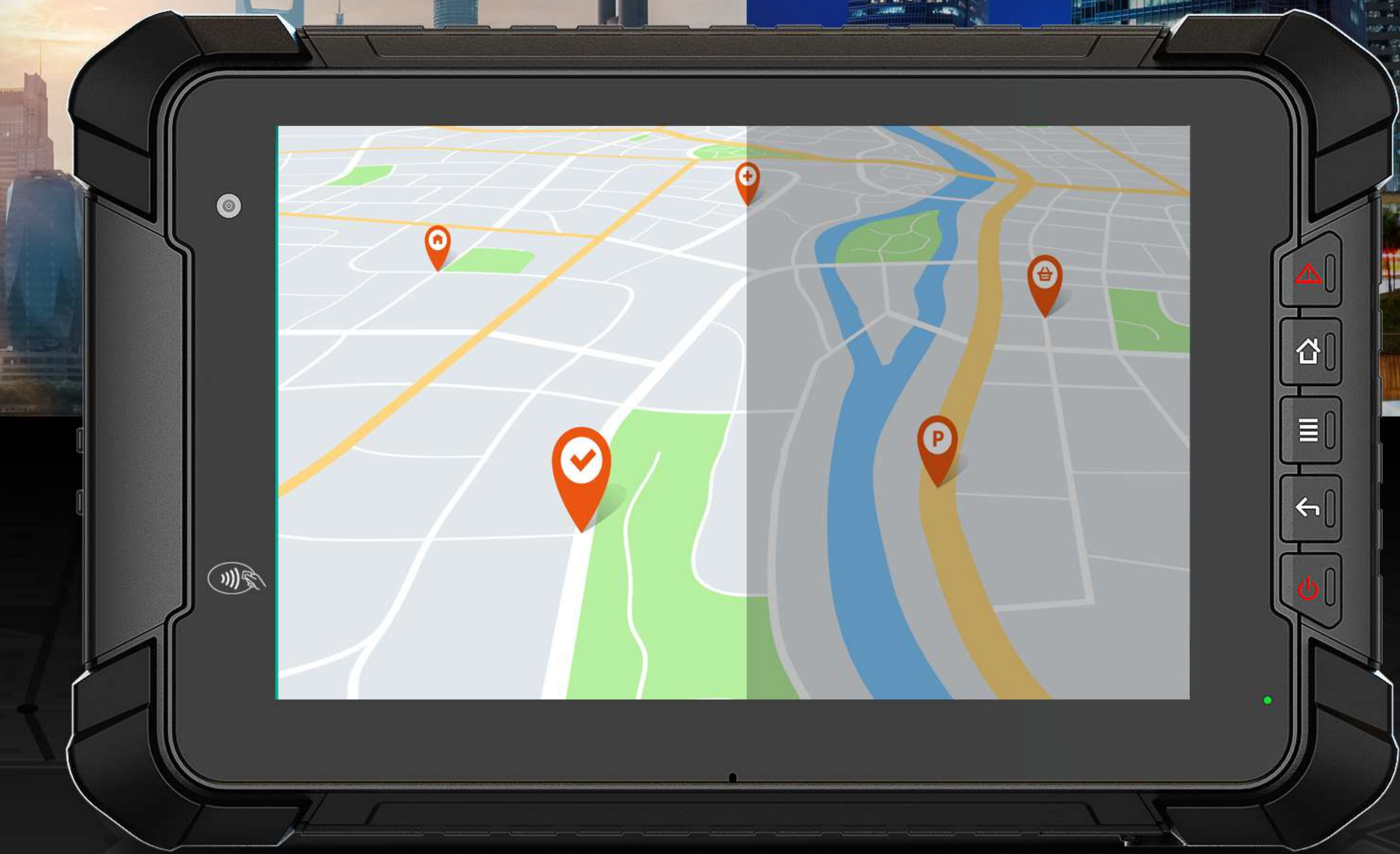


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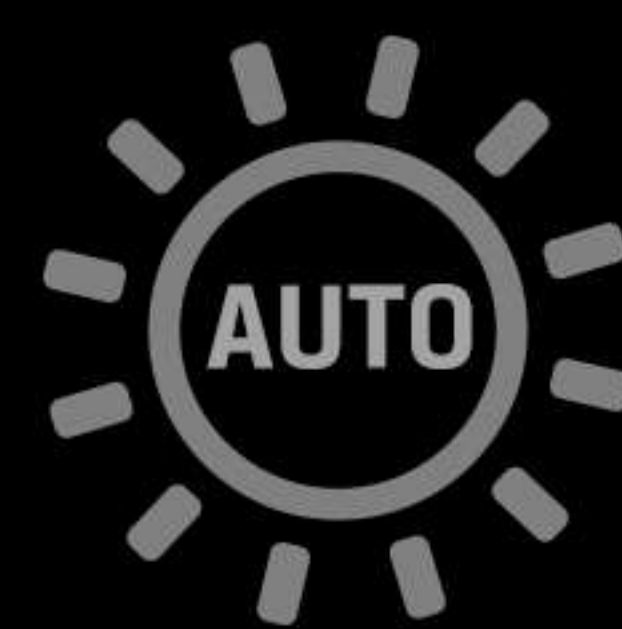
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## Diversified Built-In Sensors

This 7" tablet has a wide range of built-in sensors to assist the device in various operations, to ensure data collection or to fulfil certain purposes. For example, light sensor, proximity sensor, gyroscope sensor, compass and so on.



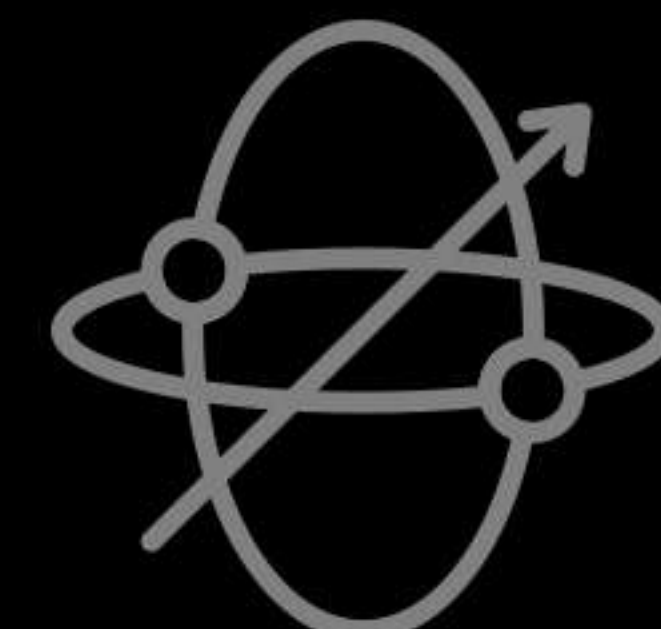
### Light Sensor

Auto dimming, screen brightness adjusts automatically with light conditions.



### Proximity Sensor

Used to measure the distance of external objects from the device.



### Gyroscope Sensor

To calculate the angle of rotation, this is mostly used for navigation.



### Accelerometer Sensor

It is used to measure acceleration due to moving. Sense the current state of screen.

## Extension Interfaces



**DC:** DC 9-36V Power (DC 11-36V with battery)

**COM 0:** Bluetooth or RS232 are optional

**COM 1:** RS232

**COM 2:** GNSS (External) or RS232 are optional

**COM 3:** RS232/RS485/RS422  
(COM 3 fails when RS485/RS422 is available)

**GPIO:** Each cable can be customized for input or output

**RJ45:** LAN 1000M

**USB:** USB 2.0 host

**CAN:** Integrated CAN × 1 by default,  
Support up to CAN × 2

**RS485:** COM 3 fails when RS485 is choosed

**ACC:** ACC connection cable are optional



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# IP 67 Rating

## Rugged Shell

MIL-STD-810G certified, rugged, drop-resistant design with IP67 dust and water proof rating throughout the shell to maximise the life of device.



### Edge Protection

Silicone protects the edges and corners to reduce impact of drops.



### Interfaces Cover

With dust and water resistant interface covers.

# Removable

## Battery (Optional)

The tablet can be optionally supplied with a 3500mAh built-in battery, which can also be removed when the battery is not used for a long period of time.



### Optional Power

Optional 3500mAh removable battery /  
DC 9-36V power supply



# Power

## Protection ISO7637-2

An ISO7637-2 power supply protection chip is installed to prevent damage to the device caused by excessive current and to increase its service life.



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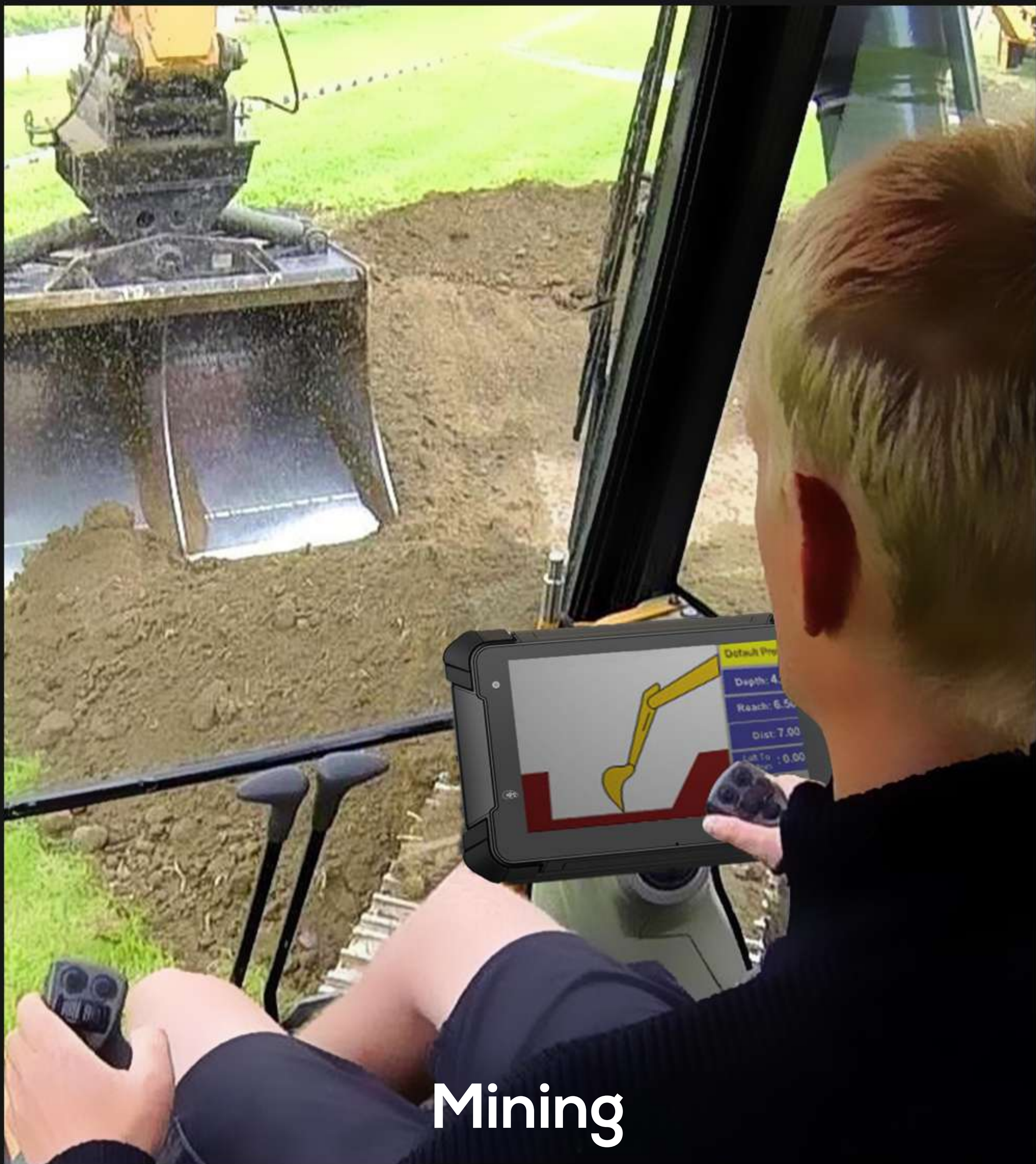


# Applications

This tablet is suitable for very complex or harsh conditions of applications. For instance, taxi, farming, mining, oil&gas, truck and so on.



TAXI



Mining



Farming



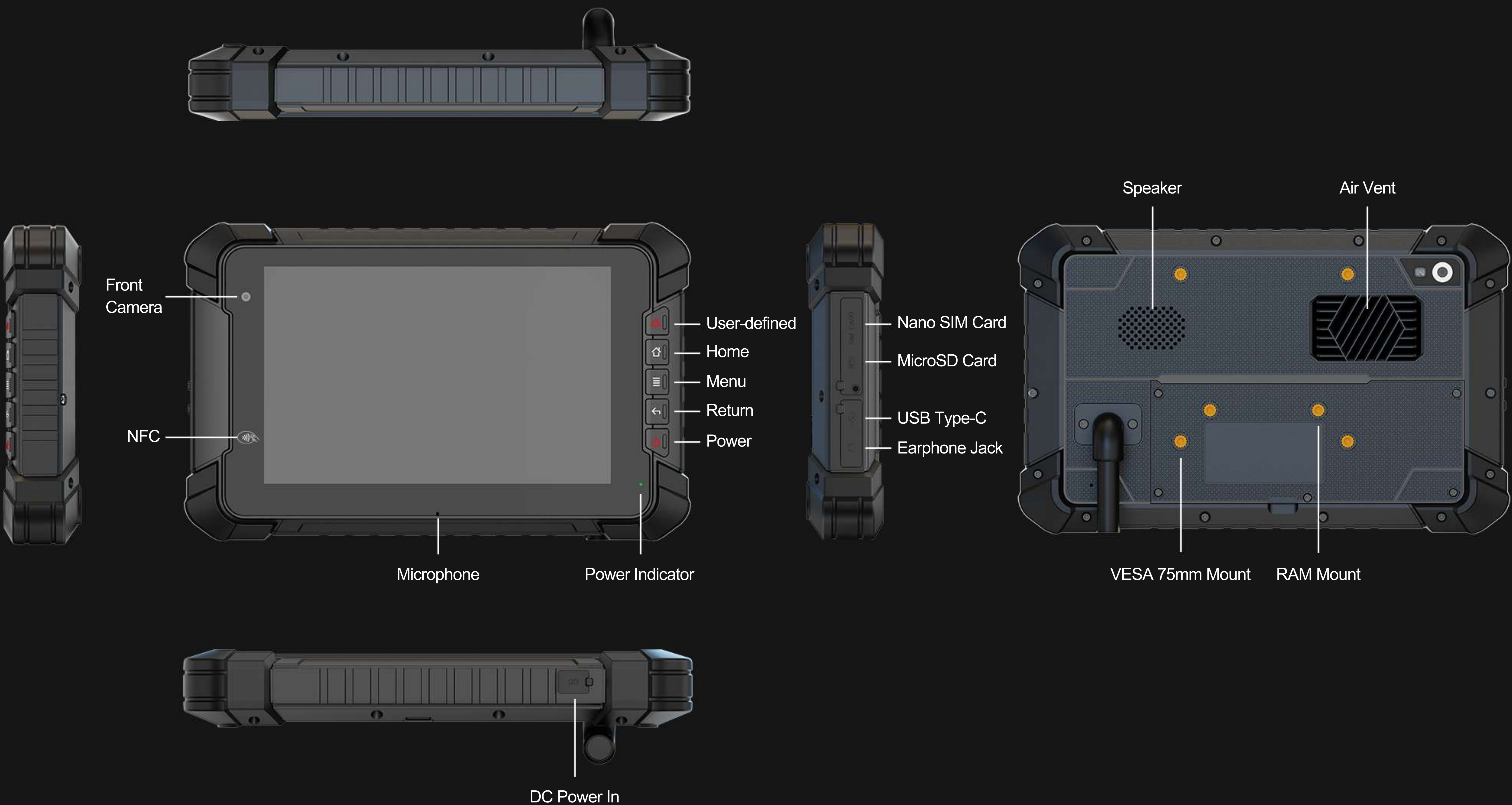
Oil & Gas



Truck

# Specifications

SYSTEM	CPU	NXP i. MX 8M Mini, ARM® Cortex®-A53 Quad-Core 1.6GHz processor
	GPU	3D GPU (1 × shader, OpenGL® ES 2.0), 2D GPU
	OS	Android 9.0 / Linux Debian 10
	RAM+ROM	2GB LPDDR4+16GB Flash or 4GB LPDDR4+64GB Flash are optional
	Video Decode	1080p60 (H.265, VP9, H.264, VP8)
	Video Encode	1080p60 (H.264)
DISPLAY	LCD	7 inch IPS, 1280 × 800 resolution, 800 nit
	Touch	Capacitive touch screen
INTERFACES	LAN	1000M
	GPIO	× 8 (Software freely define input and output)
	COM	RS232 × 4; or RS232 × 3 + RS485/RS422 × 1; The optional Bluetooth and external GPS will each occupy an RS232 port.
	Nano SIM Card Slot	× 1
	MicroSD Card Slot	× 1
	USB	USB Type-C OTG × 1, USB2.0 Host × 1
	Earphone Jack	3.5mm
	CAN	× 2 (Integrated CAN × 1 by default, CAN × 2 are optional)
	Microphone	Built-in
	Cellular Network	Optional, 3G / 4G
OPTIONAL FUNCTIONS	WiFi	Optional, IEEE 802.11 a/b/g/n/ac; 2.4GHz / 5GHz
	Bluetooth	Optional, 5.0
	GNSS	Optional, Built-in or external
	NFC	Optional
	ACC	Optional
	Camera	Optional, 5.0MP (Front)
	Sensors	Light sensor; Proximity sensor; Gyroscope & accelerometer; Compass.
	Power Supply	DC 9-36V (ISO 7637-II compliant) / DC 11-36V with built-in battery
	Power Consumption	≤ 10W (≤ 18W with built-in battery)
	Battery (optional)	Built-in 3500mAh, working time 2~3h
POWER	Speaker	× 1
	Dimension	221 x 139.7 x 29.5 mm
OTHER	Weight	910g
	Environment	Dust resistance test: IP6x
		Water resistance test: IPx7
		Operating temperature: -20°C ~ 60°C (-4°F ~ 149°F);
		Built-in battery: 0°C ~ 50°C (32°F ~ 122°F)
		Storage temperature: -20°C ~ 70°C (-4°F ~ 158°F)



\*Tip: Actual functionality is subject to final negotiation.

# Accessories

## STANDARD



Extended Cable



DC 12V Power Adapter



USB-C Cable



User Manual

## OPTIONAL



3500 mAh Li-ion Battery



RAM Mounting Bracket



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