

Technical Specifications - Data Sheet

CPU	NXP i.MX8M Mini
	up to quad-core Cortex-A53, 1.8 GHz
	Single-core Cortex-M4F
	2D/3D GPU (OpenGL ES 2.0)
DRAM	2 GB LPDDR4
Storage	16 GB eMMC Flash
Wireless	Panasonic PAN9028
	802.11 a/b/g/n/ac (2.4 GHz and 5 GHz), 802.11i
	Indoor location and navigation with IEEE 802.11mc
	Bluetooth 5 (includes Low Energy)
Display	4-lane MIPI DSI
	Capacitive touch interface
	5" TFT, resolution 720 × 1280 pixels
Camera	Flexible sensor extension interface
	4-lane MIPI CSI-2
	Power supply for sensor extension boards
	GPIO signals for flash / illumination control
Location	SIMCom SIM33ELA
	High-performance GNSS module (GPS, GLONASS, Galileo, and QZSS)
Audio	Maxim MAX98357A PCM Class D amplifier
	Magnetic Speaker (0.7 W / 88 dB)
	PDM microphone
Connectivity	microSD card slot
	2× USB Type-C (1× charging only / 1× USB OTG)
	PCI Express M.2 2230 Card slot (E key)
	RJ45 1GB Ethernet (optional)
	1× USB Type-A (optional)
	1× UART (expansion interface)
	FT232 USB-to-UART (debug interface)
Power	Power Supply via USB Type-C
	Dual 18650 Li-Ion battery connector
	TI BQ25611D 3.0-A battery charger on-board
	TI BQ27520 battery fuel gauge on-board
	Wireless Charging expansion connector
Operating systems	Android 11
	Yocto Linux BSP
	Debian Linux BSP (on request)
PCB dimensions	125 mm × 78 mm

