

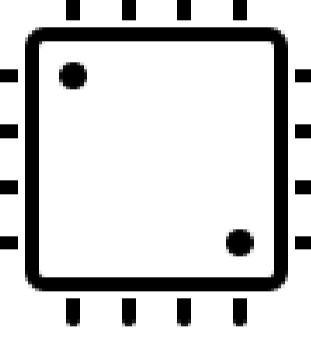
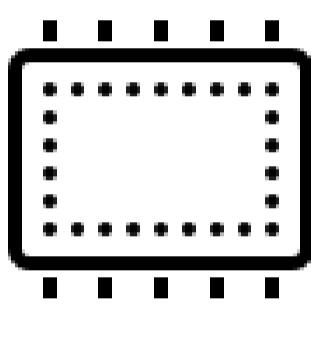
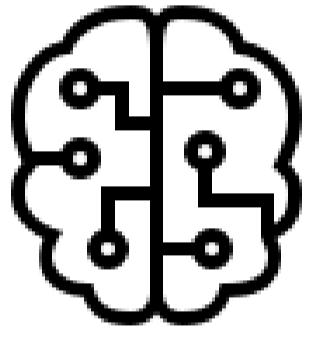
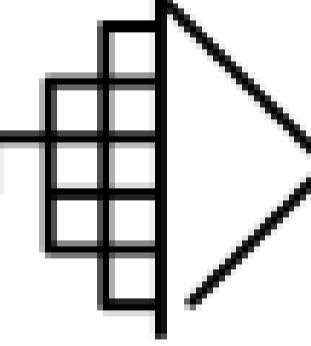
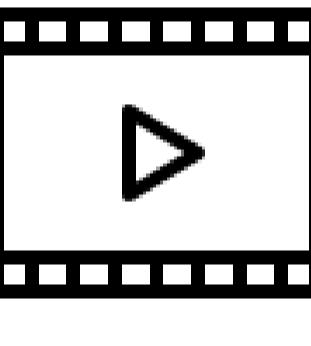
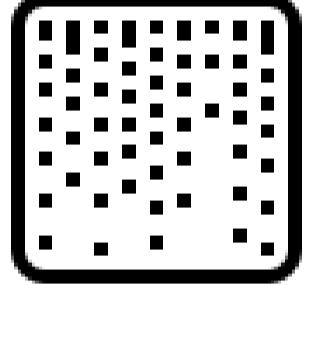
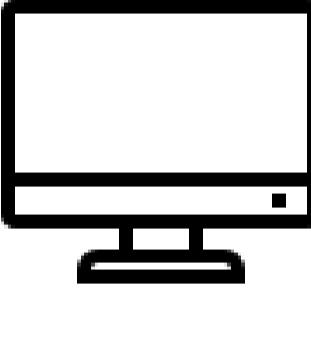
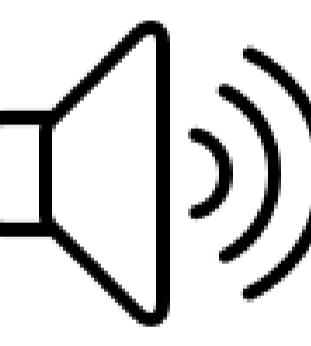
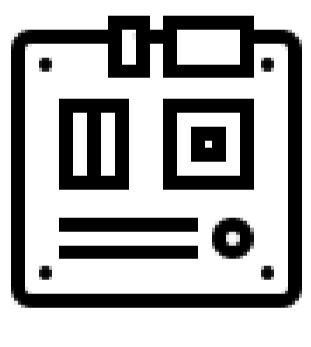
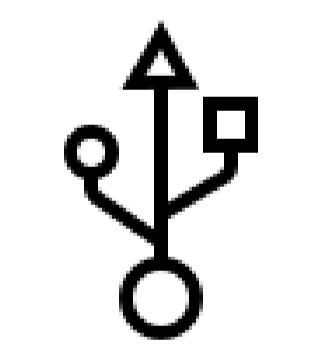
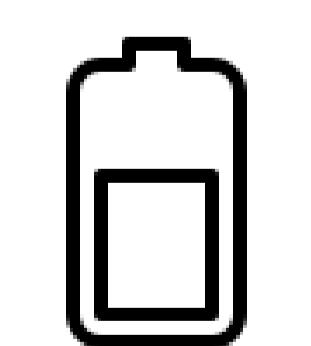
# Mecha Comet

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The Mecha Comet is a handheld modular Linux computer. Using its magnetic snap interface, the Comet can work as a multipurpose device, such as a remote terminal using a keyboard extension, a game controller or a tinkering tool using a breakout extension or you could make your own robot out of it.

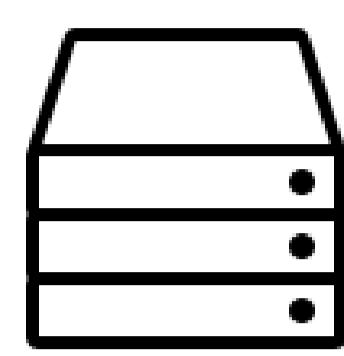
The Comet is powered by a 1.8 GHz ARM64 Quad-core processor, with upto 8gb of memory and 128gb of onboard storage (expandable). The operating system is powered by Mechanix OS, a custom Debian-based distro for Linux.

## SPECIFICATIONS

	System-on-Chip NXP i.MX 8M Plus Quad-Core ARM Cortex-A53, 1.8 GHZ		Memory 4 / 8 GB LPDDR4, 4266 MT/s 64 / 128 GB eMMC Flash
	Processor Units ML Accelerator (2.3 TOPS) Cortex-M7 @ 800 MHz		GPU Vivante GC7000UL 3D, GC520L 2D Up to 1000 MHz shader clock
	Video Processing 1080p60 H.265, H.264, VP9 decode 1080p60 H.265, H.264 encode*		Wireless WiFi 6 802.11a/b/g/n/ac/ax v5.4 Bluetooth, BLE, LE Audio
	Display 3.92" AMOLED, 1080×1240 500 nits, 5-finger touch		Display Out HDMI 2.1 via Mini-HDMI jack Supports eARC
	Audio 1.2 W Speaker, 6 Ohm, 3.5 mm jack 2x HD Digital Mic		Camera 8MP IMX219 sensor, 3264 × 2464@60 Inbuilt Auto-focus
	PCI Express PCIe 3.0, 1x (8gb/s) B-Key, 2242 and 3042 sizes		USB 2x USB-C 3.0, 1x USB-C 2.0 Power Delivery, Up to 24V
	Battery 4100 MaH LiPo Battery Fast Charging, discharge upto 5A		Sensors Gyroscope, Accelerometer, Magnetometer, Ambient Light Sensor
	Indicators Inbuilt Haptic Vibration Motor 1x Programmable RGB LED		Security Isolated trust anchor Supports RSA, ECC, ED25519

# Mecha Comet

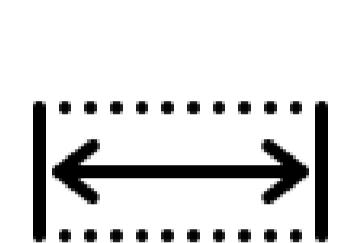
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Expandable Storage  
MicroSD (SDXC)  
NVMe SSD (2230)

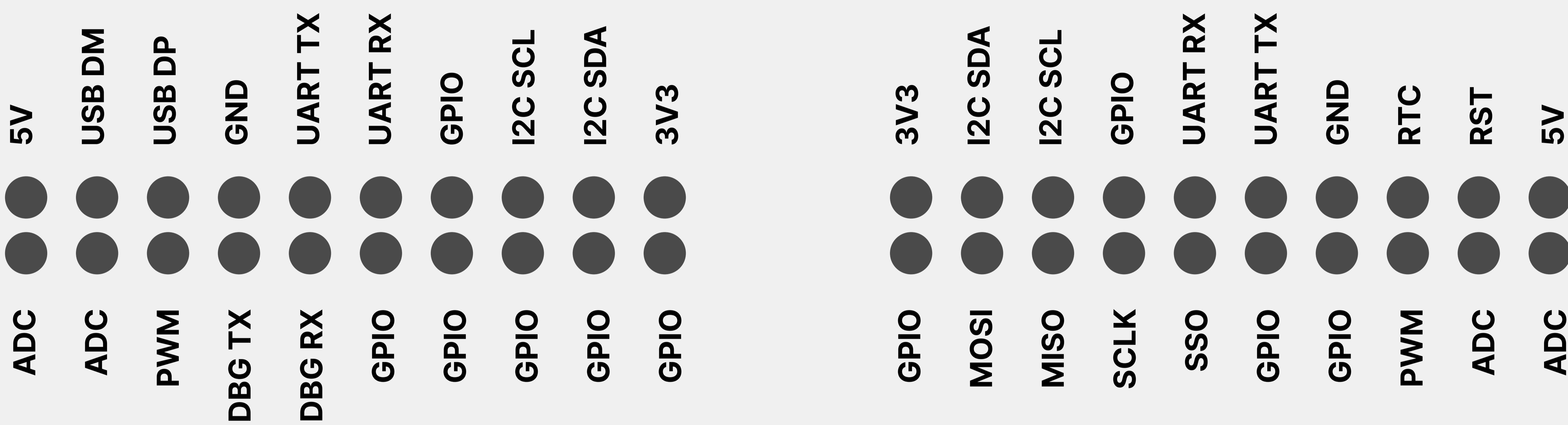


4G Modem  
LTE Cat 4 module on M.2  
NanoSIM Slot



Dimensions  
73 mm x 155 mm x 14 mm  
225 grams (7.9 Oz)

## 40-Pin IO Connector



## Physical Layout

