

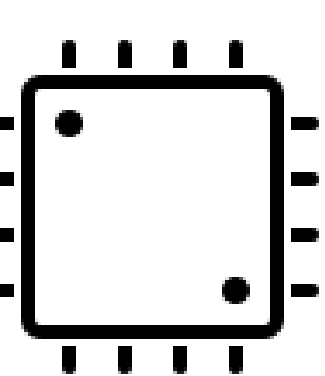
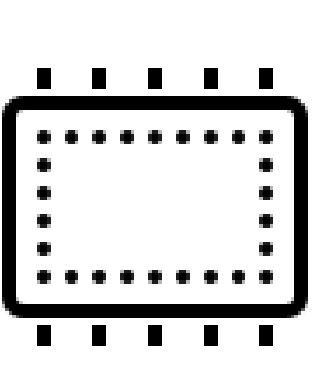
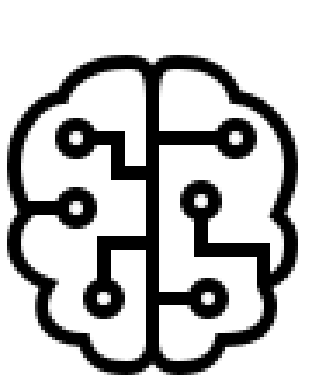
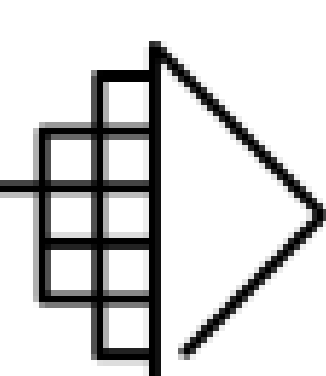
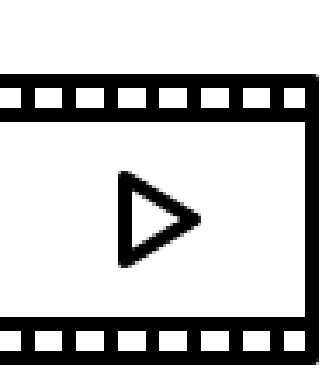

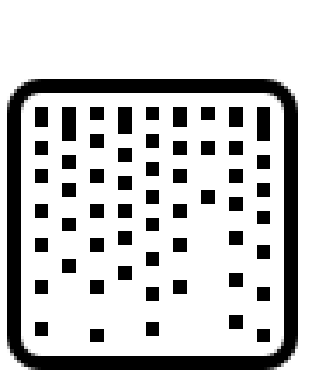
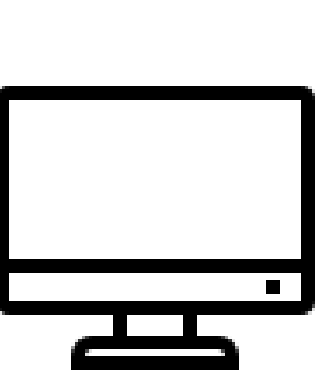
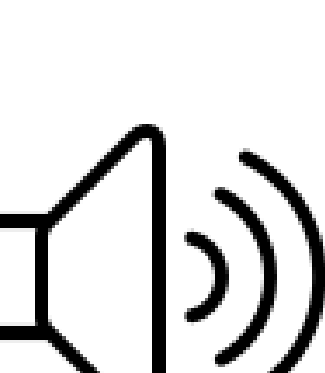
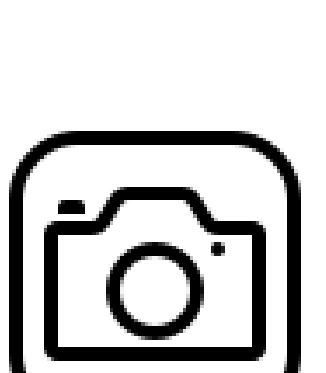
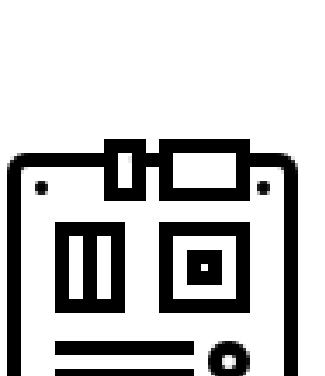
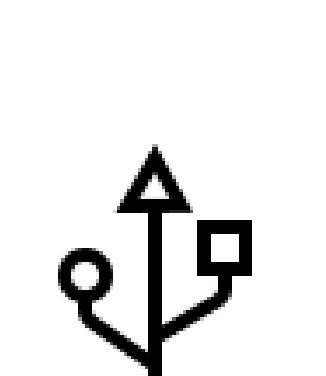
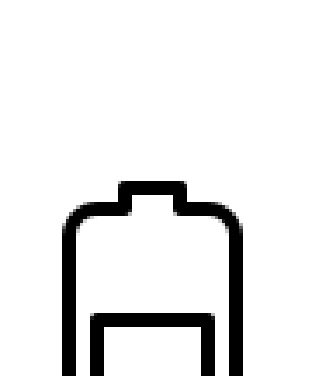

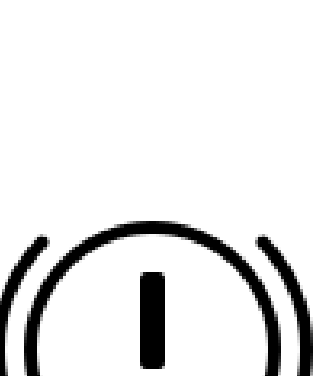

# Mecha Comet

mecha

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.

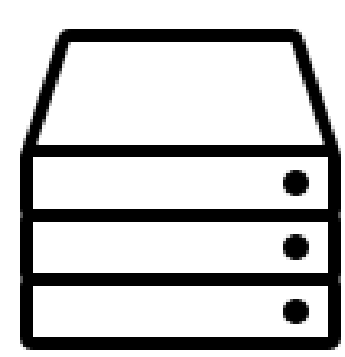
The Comet is powered by a 1.8 GHz ARM64 Quad-core processor, with upto 8gb of memory and 128gb of onboard storage (expandable). The operating system is powered by Mechanix OS, a custom Debian-based distro for Linux.

SPECIFICATIONS


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

Mecha Comet

mecha



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

5V	USB DM	USB DP	GND	UART TX	UART RX	GPIO	I2C SCL	I2C SDA	3V3	3V3	I2C SDA	I2C SCL	GPIO	UART RX	UART TX	GND	RTC	RST	5V
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
ADC	ADC	PWM	DBG TX	DBG RX	GPIO	GPIO	GPIO	GPIO	GPIO	GPIO	MOSI	MISO	SCLK	SSO	GPIO	GPIO	PWM	ADC	ADC

Physical Layout

