

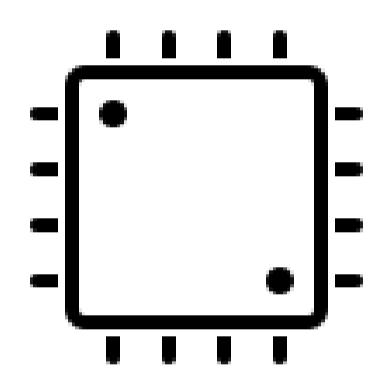
Mecha Comet (I.MX 8M Plus)

mecha

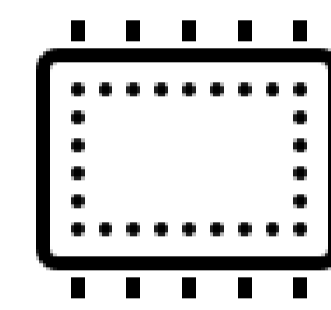
The Mecha Comet is a handheld modular Linux computer. Using its magnetic snap interface, the Comet can work as a multipurpose device, such as a remote terminal using a keyboard extension, a game controller or a tinkering tool using a breakout extension or you could make your own robot out of it.

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 Fedora-based distro for Linux.

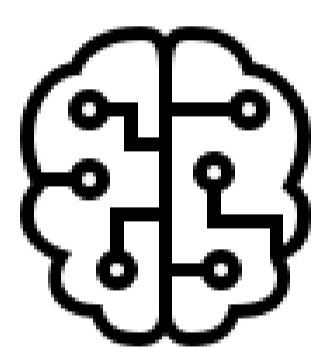
SPECIFICATIONS



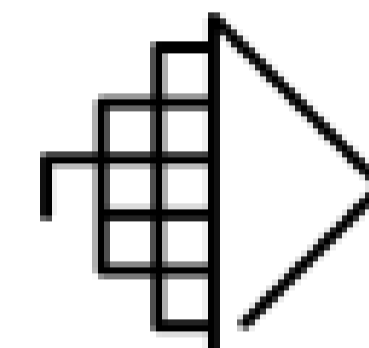
System-on-Chip
NXP i.MX 8M Plus
Quad-Core ARM Cortex-A53, 1.8 GHZ



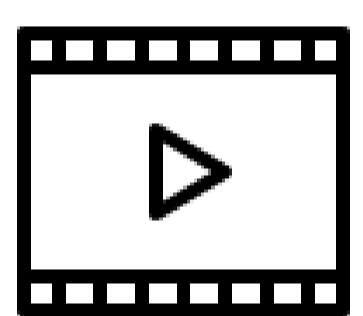
Memory
4 / 8 GB LPDDR4, 4266 MT/s
64 / 128 GB eMMC Flash



Processor Units
ML Accelerator (2.3 TOPS)
Cortex-M7 @ 800 MHz



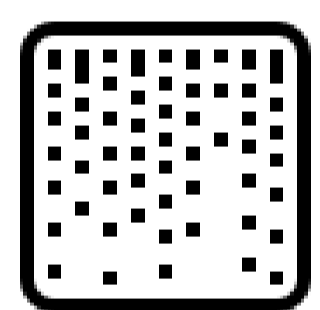
GPU
Vivante GC7000UL 3D, GC520L 2D
Up to 1000 MHz shader clock



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



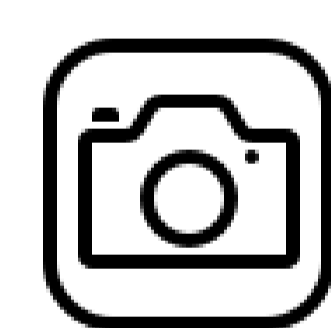
Display
3.92" AMOLED, 1080x1240
500 nits, 5-finger touch



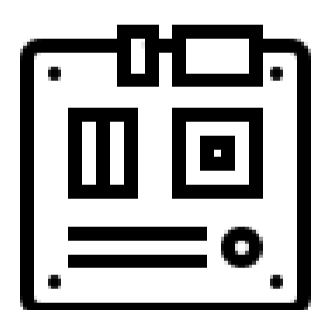
Display Out
Display Port over Type-C (2k60)
Supports Audio



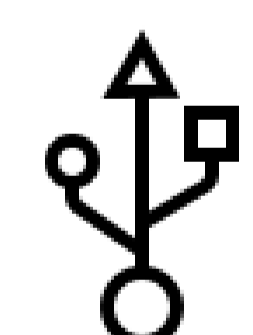
Audio
1.2 W Speaker, 6 Ohm, 3.5 mm jack
2x HD Digital Mic



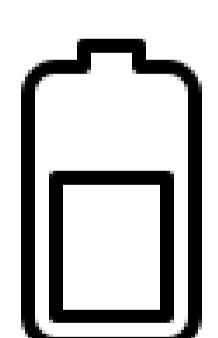
Camera
8MP IMX219 sensor, 3264 x 2464@60
Inbuilt Auto-focus



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

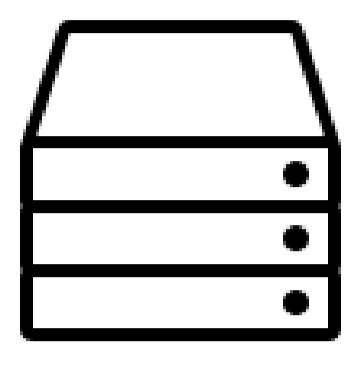


Indicators
Inbuilt Haptic Vibration Motor
1x Programmable RGB LED



Security
Isolated trust anchor
Supports RSA, ECC, ED25519

Mecha Comet



Expandable Storage
 MicroSD (SDXC)
 NVMe SSD (2230)

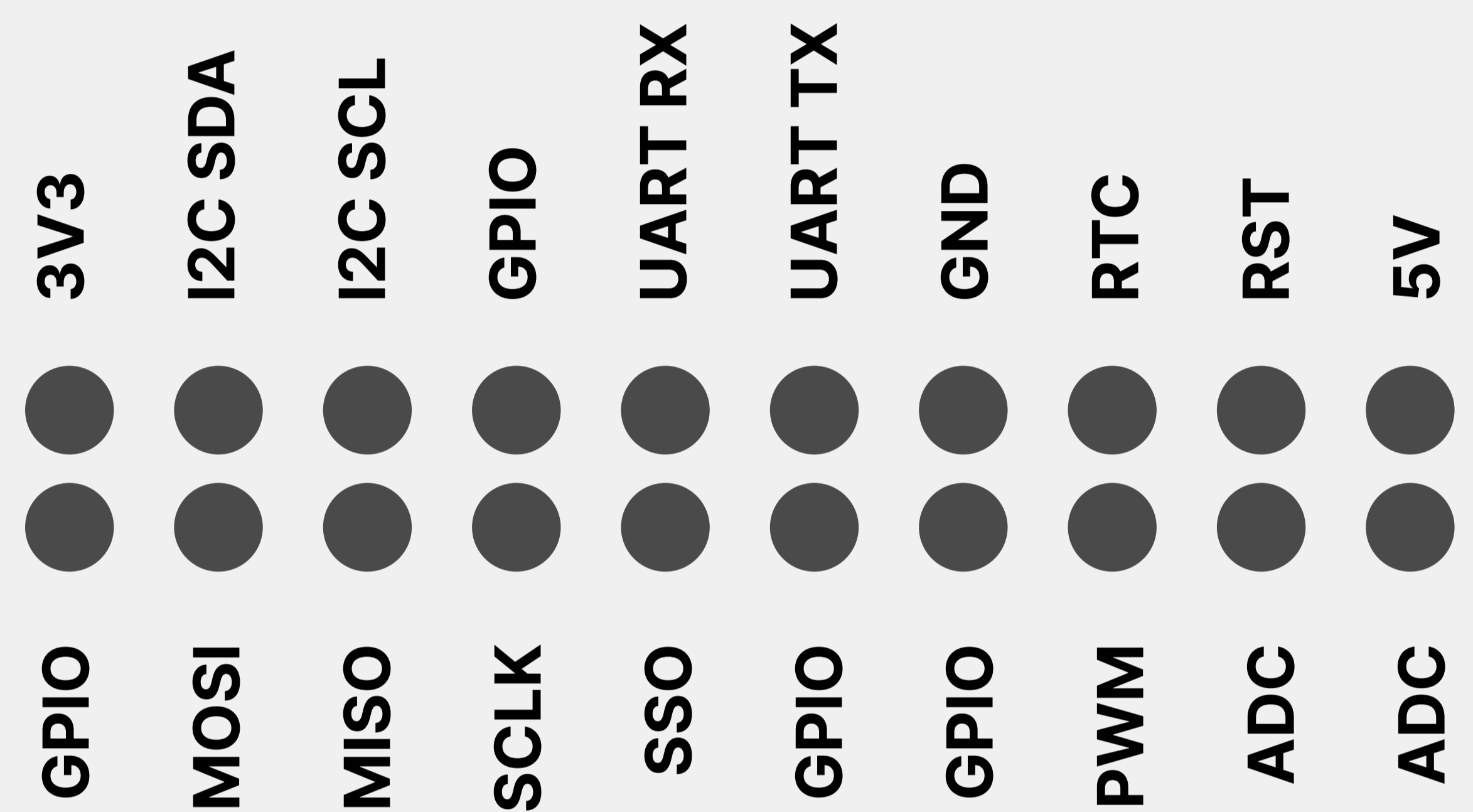
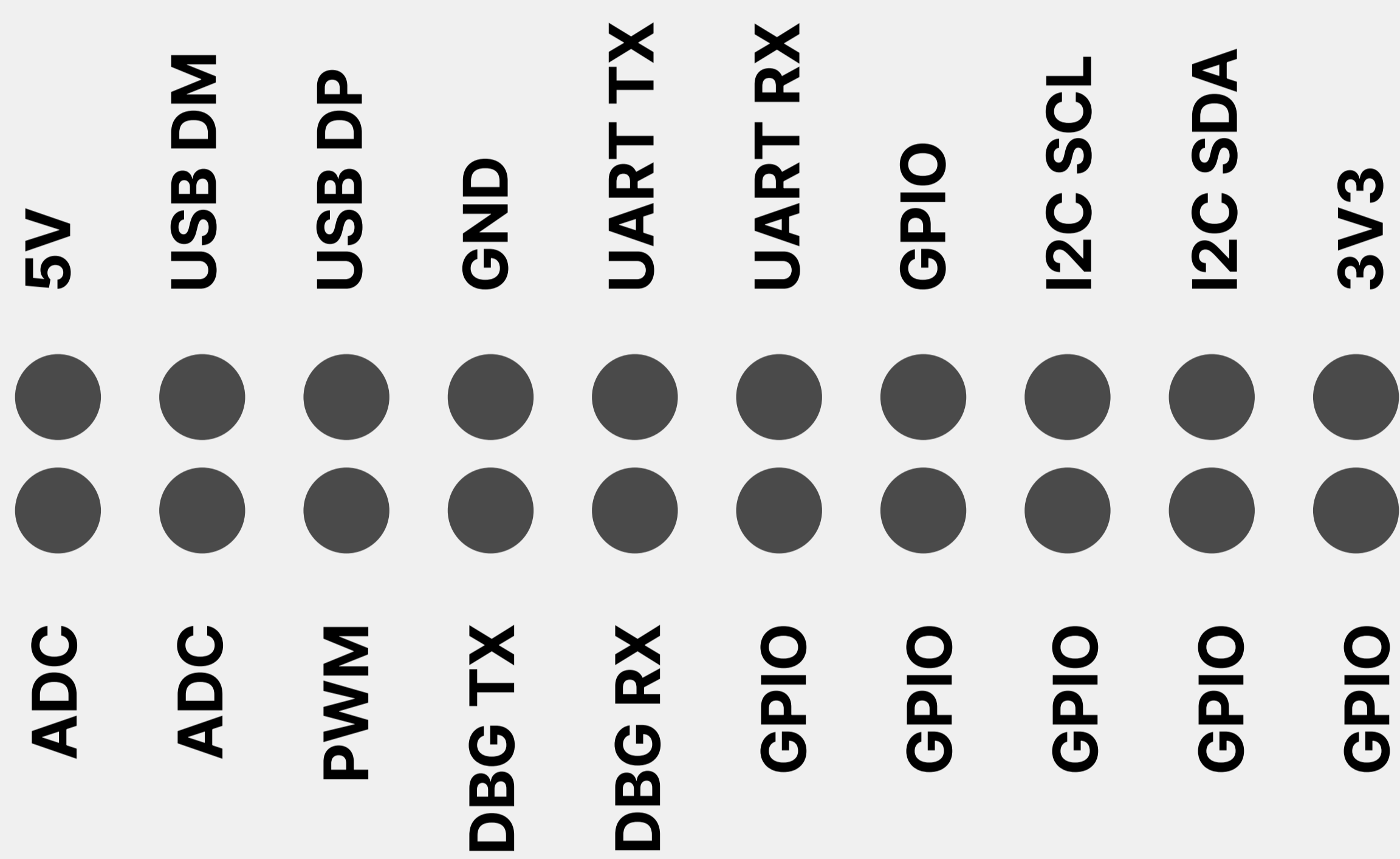


4G Modem
 LTE Cat 4 module on M.2
 NanoSIM Slot



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

40-Pin IO Connector



Physical Layout

