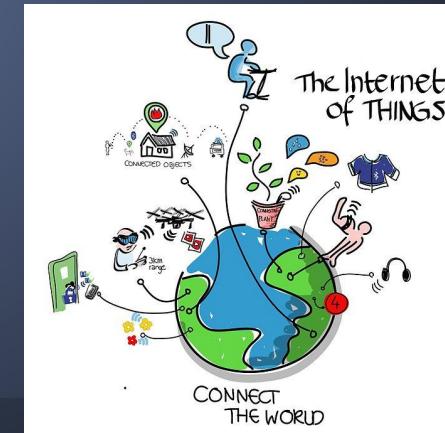


# Ingenic's Newton2

An SOC for the Internet of Things

# Internet of Things

- Wearables and embedded computing devices.
- Ultra-low power technology

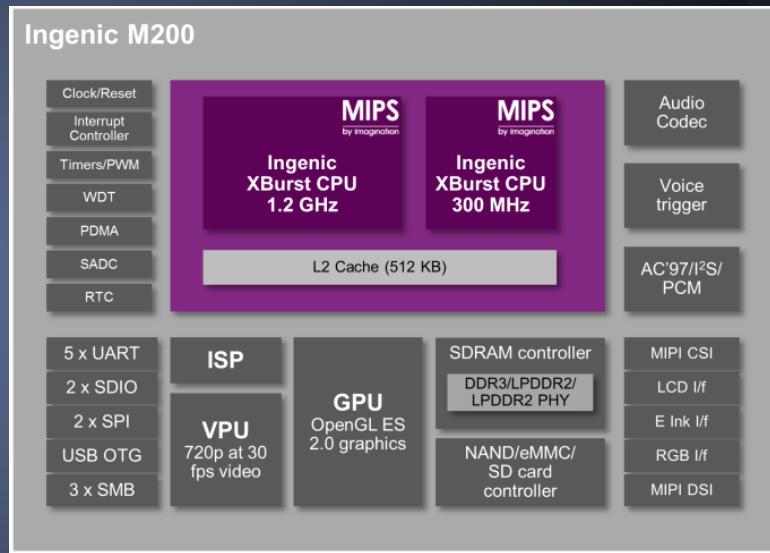


# Ingenic M200

- 9-stage in order
- Big-Little
- 2.0 DMIPS/MHz
- 84mW @ 1.2GHz

Estimated Core Performance

	ARM Cortex M0/M0+	ARM Cortex M3/M4	ARM11	ARM Cortex A7	ARM Cortex A9	Qualcomm Krait 200
DMIPS/MHz	0.84/0.94	1.25	1.25	1.9	2.5	3.3



# A long way to go

Battery Life does not scale well for wearables!

Device	Battery Size	Battery Life
Laptop	95000mAH (Macbook Pro)	8 hr
Tablet	32400mAH (iPad)	10 hr
Phone	1800mAH (iPhone)	10 hr
Watch	130mAH (Pebble)	5 days

# Questions?

- [1] <http://anandtech.com/show/8702/ingenic-launches-newton2-mips-based-iot-and-wearables-solution>
- [2] <http://anandtech.com/show/8400/arms-cortex-m-even-smaller-and-lower-power-cpu-cores>
- [3] [http://en.wikipedia.org/wiki/Internet\\_of\\_Things](http://en.wikipedia.org/wiki/Internet_of_Things)