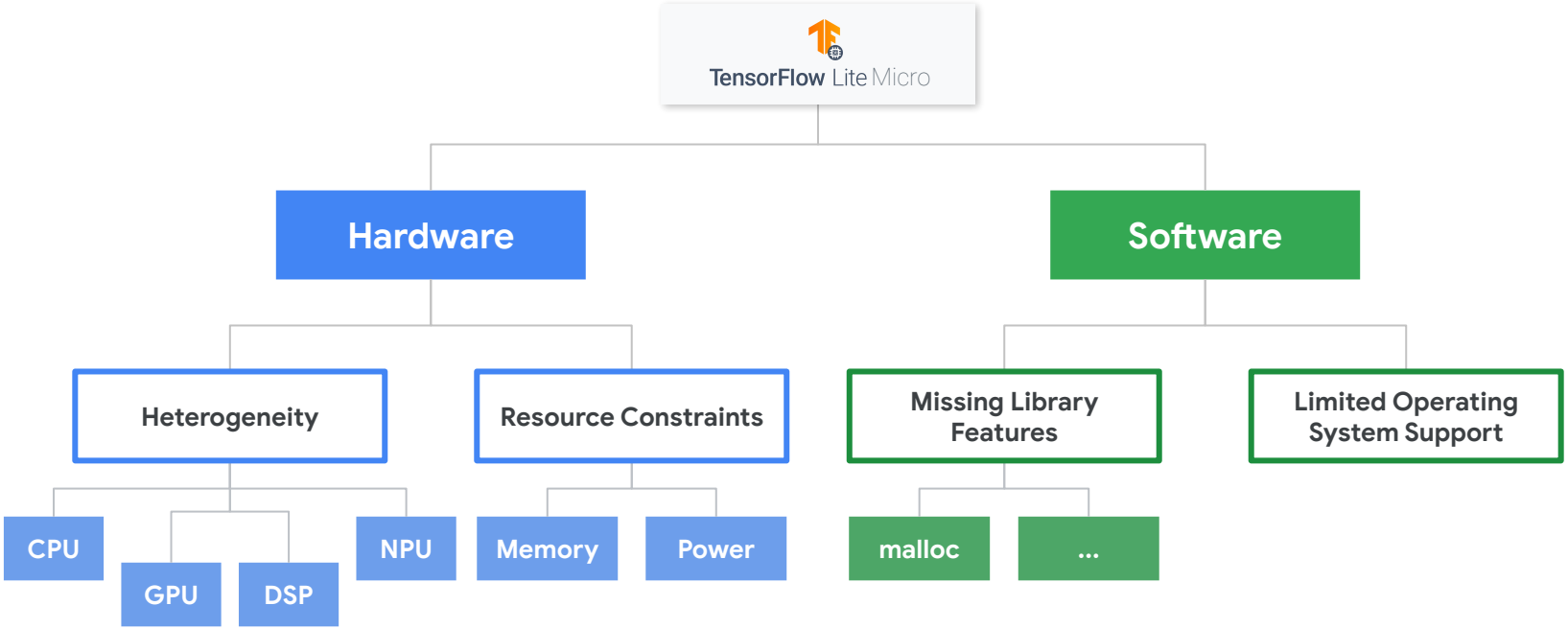
TFLite Micro: The Big Picture


TensorFlow Lite Micro
Hardware
Software
Heterogeneity
Resource Constraints
Missing Library Features
Limited Operating System Support
CPU
GPU
DSP
NPU
Memory
Power
malloc
...

TensorFlow Lite Micro

...

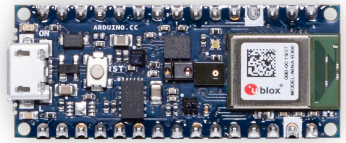
Arduino
BLE Sense 33

Himax
WE-I Plus EVB

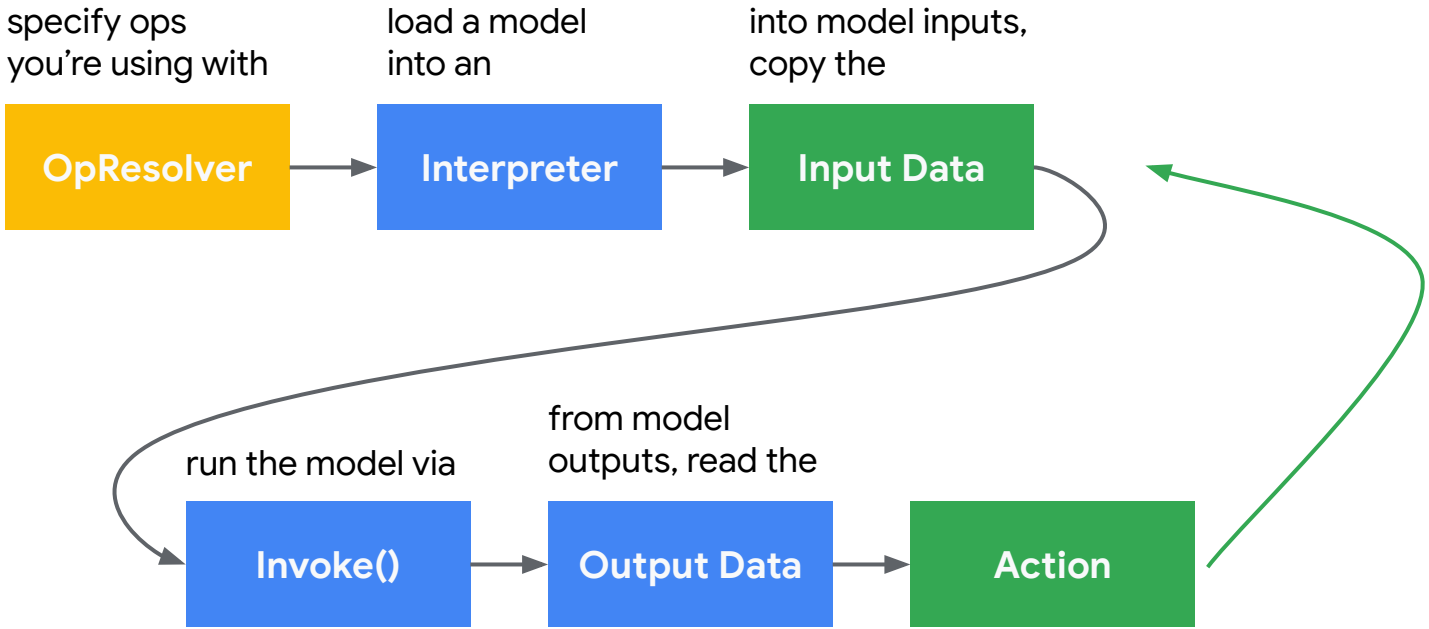
SparkFun
Edge 2

Espressif
EYE

...



How do you use **TFL Micro**?



Recap: What is TensorFlow Lite Micro?

Compatible with the TensorFlow training environment.

Built to fit on **embedded systems**:

- Very **small binary footprint**
- **No** dynamic memory allocation
- **No** dependencies on complex parts of the standard C/C++ libraries
- **No** operating system dependencies, **can run on bare metal**
- Designed to be **portable** across a wide variety of systems