USD

seeed
The IoT Hardware Enabler

Shop   Fusion PCB/PCBA   Community   What are you looking for?   Sign in

Coral USB Accelerator

SKU   114991790

★★★★★

A USB accessory that brings machine learning inferencing to existing systems. Works with Raspberry Pi and other Linux systems.

-   1   +   CN Warehouse

Estimated availability Date: May 17, 2019

Pre Order

Tags: Google Edge TPU   Coral Dev Board   SOM   AI   Machine learning   TensorFlow Lite   Prototype   SBC   IoT

Description   Documents   Learn   Reviews   FAQS

⚠ **Attention**

This product has shipping restriction to certain countries. Please kindly check the list as below:

Australia/ New Zealand, Canada, Central African Republic, China, Colombia, Cuba, Czech Republic (CZ), France (FR), India, Iran, Israel, North Korea, Republic of Ecuador, Republic of Kosovo, Sudan, Syria, Taiwan (China)

The Coral USB Accelerator brings powerful ML inferencing capabilities to existing Linux systems.

Featuring the Edge TPU — a small ASIC designed and built by Google— the USB Accelerator provides high performance ML inferencing with a low power cost over a USB 3.0 interface. For example, it can execute state-of-the-art mobile vision models such as MobileNet v2 at 100+ fps, in a power efficient manner. This allows you to add fast ML inferencing to your embedded AI devices in a power-efficient and privacy-preserving way.

Models are developed in TensorFlow Lite and then compiled to run on the USB Accelerator.

Edge TPU key benefits

- High-speed TensorFlow Lite inferencing
- Low power
- Small footprint

Coral is a division of Google, that helps you build intelligent ideas with our platform for local AI.

FEATURES

- Google Edge TPU ML accelerator coprocessor
- USB 3.0 Type-C socket
- Supports Debian Linux on host CPU
- Models are built using TensorFlow
- Fully supports MobileNet and Inception architectures though custom architectures are possible
- Compatible with Google Cloud

SPECS

Edge TPU ML accelerator

- ASIC designed by Google that provides high performance ML inferencing for TensorFlow Lite models

Arm 32-bit Cortex-M0+ Microprocessor (MCU)

- Up to 32 MHz max
- 16 KB Flash memory with ECC
- 2 KB RAM

Connections

- USB 3.1 (gen 1) port and cable (SuperSpeed, 5Gb/s transfer speed)
- Included cable is USB Type-C to Type-AU

Local inferencing

Run on-device ML inferencing on the Edge TPU designed by Google.

Works with Debian Linux

Connect to any Linux-based system with an included USB Type-C cable.

Supports TensorFlow lite

No need to build models from the ground up. Tensorflow Lite models can be compiled to run on USB Accelerator.

Requirements

The Coral USB Accelerator must be connected to a host computer with the following specifications:

Any Linux computer with a USB port

- Debian 6.0 or higher, or any derivative thereof (such as Ubuntu 10.0+)
- System architecture of either x86_64 or ARM64 with ARMv8 instruction set

Raspberry Pi is supported

- Only Raspberry pi <2/3 Model B/B+>
- While USB 3.0 provides the fastest performance Raspberry Pi only supports USB 2.0
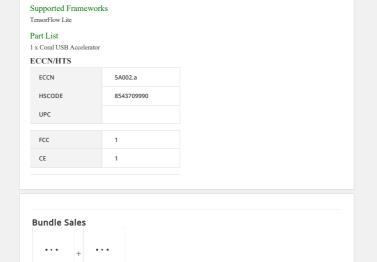
Tech Specs

ML accelerator	Google Edge TPU coprocessor
Connector	USB Type-C* (data/power)
Dimensions	65 mm x 30 mm

* Compatible with Raspberry Pi boards at USB 2.0 speeds only.

Supported Operating Systems

Supported Frameworks

TensorFlow Lite

Part List

1 x Coral USB Accelerator

ECCN/HTS

ECCN	5A002.a
HSCODE	8543709990
UPC	

FCC	1
CE	1

Bundle Sales

· · · + · · ·

☐ This item: Coral USB Accelerator
☐ Raspberry Pi 3 Model B+

Company

About Seeed
Distributors
Careers
Contacts

Help Center

How to Get Help
FAQ
Technical Support
Shipping & Order
Warranty & Returns
Payment Information

Community

Project Hub
Forum
Blog
Wiki

Stay Tuned

Enter Email Address

Site Map   Privacy Policy

Contact Support