## **DATA SHEET**



# Intel<sup>®</sup> Neural Compute Stick 2

High Performance, Low Power for AI Inference





Learn more about Intel<sup>®</sup> Neural Compute Stick 2 at http://intel.com/ncs

#### Introduction

Bringing computer vision and artificial intelligence to your IoT and edge device prototypes is now easier than ever with the enhanced capabilities of the Intel<sup>®</sup> Neural Compute Stick 2 (Intel<sup>®</sup> NCS 2).

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Whether you're developing a smart camera, a drone with gesture-recognition capabilities, an industrial robot, or the next, must-have smart home device, the Intel<sup>®</sup> NCS 2 offers what you need to prototype smarter.

What looks like a standard USB thumb drive hides much more inside. It's built on the latest Intel® Movidius™ Myriad™ X VPU which features the neural compute engine—a dedicated hardware accelerator for deep neural network inferences. With more compute cores than the original version and access to the Intel® Distribution of OpenVINO<sup>™</sup> toolkit, the Intel® NCS 2 delivers 8X\* perfor- mance boost over the previous generation.<sup>1</sup>

#### **Product Features**

- Powered by Intel<sup>®</sup> Movidius<sup>™</sup> Myriad<sup>™</sup> X Vision Processing Unit
- Up to 8X\* the performance of Intel<sup>®</sup> Movidius<sup>™</sup> Neural Compute Stick
- Supported by the Intel® Distribution of OpenVINO<sup>™</sup> toolkit
- Real-time, on device inference cloud connectivity not required
- Run multiple devices on the same platform to scale performance

## INTEL<sup>®</sup> NEURAL COMPUTE STICK 2

#### **Technical Specifications**

Specifications	Intel <sup>®</sup> Neural Compute Stick 2
Vision Processing Unit (VPU)	The Intel® Movidius™ Myriad™ X VPU
Software development kit	The Intel® Distribution of OpenVINO™ toolkit
Operating Systems support	Ubuntu* 16.04.3 LTS (64 bit), Windows® 10 (64 bit), or CentOS* 7.4 (64 bit)
Supported framework	TensorFlow* and Caffe*
Connectivity	USB 3.1 Type-A, USB 2.0 Type-A
USB stick dimensions	72.5mm X 27mm X 14mm
Operating temperature	0° - 40° C
Material Master Number	964486
MSRP	\$69 USD July 14, 2019

### WHERE TO BUY

Purchase your Intel<sup>®</sup> Neural Compute Stick 2 from one of our trusted partners at: <u>Where to Buy</u>

## WHERE WE SELL

Åland Islands Anguilla (UK) Argentina Aruba Australia Austria Bahrain **Belarus** Belgium Bermuda (UK) Bonaire Sint Eustatius and Saba (Caribbean Neth) Brazil British Indian Ocean Territory British Virgin Islands (UK) Bulgaria Canada Cayman Islands (UK) China Colombia

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Saudi Arabia Serbia Singapore Slovakia Slovenia South Africa South Georgia and South Sandwich Islands Spain Sweden Switzerland Taiwan Thailand Turkey Turks and Caicos Islands (UK) Ukraine United Arab Emirates United Kingdom United States of America United States Virgin Islands (USA) Wallis and Futuna (France)

## **REGULATORY CERTIFICATIONS**

- Australian Communications and Media Authority (ACMA) Supplier's Declaration of Conformity
- Intel Corporation Declaration of Conformity
- IECEE Mutual Recognition of Test Certificate
- VCCI Council Acceptance of Report of Compliance
- Registration of Broadcasting and Communication Equipment
- Intel<sup>®</sup> Neural Compute Stick 2 BSMI Certification
- Declaration of the Presence Condition of the Restricted Substances Marking
- Intel<sup>®</sup> Neural Compute Stick 2 Warranty

## **ADDITIONAL RESOURCES**

- Getting Started
- <u>Forum</u>
- <u>Tutorials</u>

<sup>1</sup>Testing by Intel as of October 12th, 2018

Deep Learning Workload Configuration. Comparing Intel<sup>®</sup> Movidius<sup>™</sup> Neural Compute Stick based on Intel<sup>®</sup> Movidius<sup>™</sup> Myriad<sup>™</sup> 2 VPU vs. Intel<sup>®</sup> Neural Compute Stick 2 Intel<sup>®</sup> Movidius<sup>™</sup> Myriad<sup>™</sup> 2 VPU vs. Intel<sup>®</sup> Neural Compute Stick 2 Intel<sup>®</sup> Movidius<sup>™</sup> Myriad<sup>™</sup> 2 VPU vs. Intel<sup>®</sup> Neural Compute Stick 2 Intel<sup>®</sup> Movidius<sup>™</sup> Myriad<sup>™</sup> 2 VPU vs. Intel<sup>®</sup> Neural Compute Stick 2 Intel<sup>®</sup> Movidius<sup>™</sup> Myriad<sup>™</sup> 2 VPU vs. Intel<sup>®</sup> Neural Compute Stick 2 Intel<sup>®</sup> Movidius<sup>™</sup> Myriad<sup>™</sup> 2 VPU vs. Intel<sup>®</sup> Neural Compute Stick 2 Intel<sup>®</sup> Movidius<sup>™</sup> Myriad<sup>™</sup> 2 VPU vs. Intel<sup>®</sup> Neural Stick 2 Intel<sup>®</sup> To Stick 2 Intel<sup>®</sup> Neural Stick 2 Intel<sup>®</sup> To Stick 2 Intel<sup>®</sup> Neural Stick 2 Intel<sup>®</sup> Stick 2 Intel<sup>®</sup> Neural Stick 2 Intel<sup>®</sup> Neural Stick 2 Intel<sup>®</sup> Stick 2 Intel<sup>®</sup> Neural Stick 2 In



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