

Getting Started with

Neuro Edge





The NeuroEdge is an AI development platform using neuro-morphic device, based on Raspberry Pi.

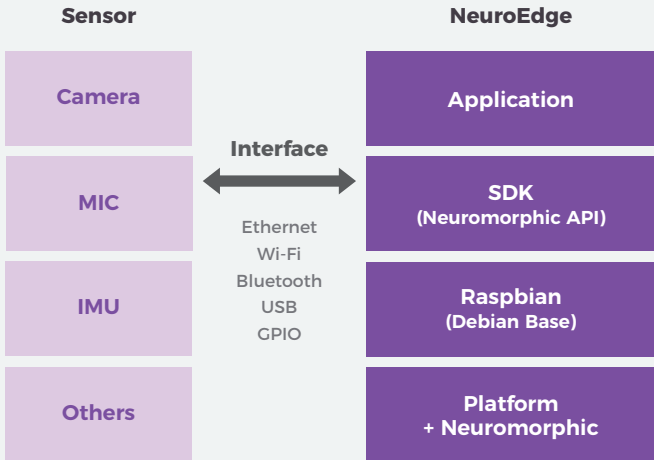
NeuroEdge supports a variety of sensors, which can be user for AI System.

It also enables real-time field training and inference on devices even in an environment network is not available.

Part List

No	Product	Qty
1	NeuroEdge	1
2	Wall mount Bracket	2
3	Micro SD(32GB)	1
4	USB Type-C Cable	1
5	Micro HDMI to HDMI Cable	1
6	USB Connector Cover	4
7	Micro HDMI Connector Cover	2
8	RJ45 Connector Cover	1
9	Audio Connector Cover	1
10	M4 6mm Bolt	4

Structure



Specification

SoC	Broadcom BCM2711 SoC
CPU	ARM Cortex-A72 1.5 GHz
GPU	VideoCore VI 500MHz
Memory	2 GB LPDDR4
Storage	32 GB (Micro SD)
Neuromorphic	2 * NM500 (up to 1,152 Neuron)
Network	Ethernet, Wi-Fi, Bluetooth
Video output	Micro HDMI * 2
Audio	3.5 mm Jack
USB	USB 2.0 * 2 / USB 3.0 * 2
GPIO	40 Pin GPIO Expansion Header
Power	5 Vdc (more than 2 A)
Operating System	Raspbian Buster
Weight	190 g
Dimensions	95.00 * 68.00 * 50.00 mm
Bracket	VESA 75 * 75 mm, 100 * 100 mm

Install NM500 SDK

1. Copy library into /usr/local/lib

```
[armv7l/spi]
```

```
$ sudo cp lib/linux.armv7l.spi/libnmengine.so.x.x.x  
/usr/local/lib
```

Copy header file

```
$ sudo cp include/nmengine.h /usr/local/include
```

2. Make a link for library

```
$ sudo ln -s /usr/local/lib/libnmengine.so.x.x.x  
/usr/local/lib/libnmengine.so  
$ sudo ldconfig
```

3. Compiles the example source code, and run it

```
$ cd src/  
$ g++ -o test test.c -L ../lib -l nmengine  
$ ./test
```

How to assemble Bracket



1 Remove the screw holding the rubber.



2 Remove the rubber on the Bottom.



3 Install the bracket in the area where rubber is removed.



4 Install it to where you want and use a screw to fasten it.



<http://www.theneuromorphic.com>



제품명 NeuroEdge
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