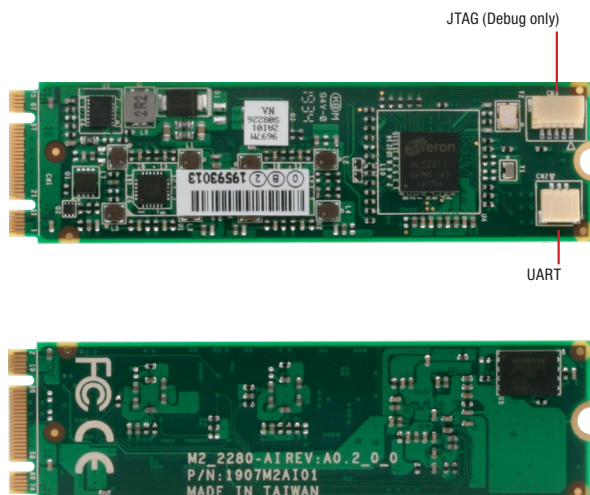
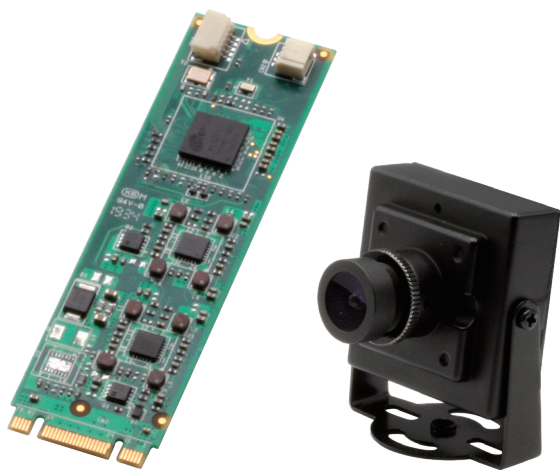


# M2AI-2280-520

AI Edge Computing Module with Kneron KL520 NPU

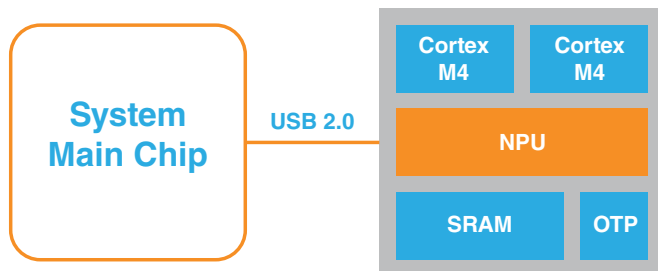


AI Vision + Edge Computing Development Kit



Part Number: PER-T520-M2AI-A11-K801

## AI Architecture



## Features

- Kneron KL520 NPU (Designed by ARM architecture)
- M.2 B Key (22x80mm)
- Accelerator for AI Edge Computing
- Good for people monitoring, retail application



## Specifications

| System                    |                                                                       |
|---------------------------|-----------------------------------------------------------------------|
| IC                        | Kneron KL520                                                          |
| Type                      | Integrated SoC                                                        |
| Support Framework         | ONNX, TensorFlow, Keras, Caffe                                        |
| Support Model             | Vgg16, Resnet, GoogleNet, YOLO, Tiny YOLO, Lenet, MobileNet, DenseNet |
| Memory Type               | LPDDR2                                                                |
| NPU Performance           | 0.35 TOPS                                                             |
| Overall Power Consumption | 0.5 W                                                                 |
| Others                    |                                                                       |
| Operating Temperature     | 32°F ~ 158°F (0°C ~ 70°C)                                             |
| Storage Temperature       | -40°F ~ 185°F (-40°C ~ 85°C)                                          |
| Operating Humidity        | 0% ~ 90% relative humidity, non-condensing                            |
| Certification             | CE/FCC Class A                                                        |

## Packing List

- M3 screw x 1
- M2AI-2280-520 x 1

## Optional Accessories

- EverFocus Full HD Camera EUA1200

## Ordering Information

| Part Number            | Description                             |
|------------------------|-----------------------------------------|
| PER-T520-M2AI-A11-0801 | AI.NPU 520.M.2 2280(USB interface).A1.1 |
| PER-T520-M2AI-A11-K801 | AI.NPU KL520.M.2 2280.w/ HD Camera.A1.1 |