

# EIC

# 2000



NXP i.MX 8M Plus Edge AI Computing System



^ Base Transceiver Station



v Smart Manufacturing



^ Irrigation System

- Industrial-grade NXP i.MX 8M Plus Quad Core Arm Cortex-A53 Processor, embedded Neural Processing Unit, up to 2.3 TOPS AI performance
- Supports up to 3840 x 2160 4K UHD
- 2 GigE LAN with 1 TSN supported
- 2 SIM sockets for multiple WiFi/BT/5G/4G/LTE/GPRS/UMTS
- Optional 6-bit GPIO and 2 CAN Bus supports Flexible Data-rate
- 9V to 55V wide range DC Power Input
- Fanless -25°C to 70°C operation



# Vecow

## Specifications

### System

|        |                                                     |
|--------|-----------------------------------------------------|
| CPU    | NXP i.MX 8M Plus Quad Core Arm Cortex-A53 processor |
| Memory | 1 LPDDR4 SDRAM, 4GB                                 |
| OS     | Ubuntu 20.04 LTS                                    |

### I/O Interface

|           |                                            |
|-----------|--------------------------------------------|
| USB       | 2 USB 3.0 Type A                           |
| Serial    | 2 COM RS-232/422/485                       |
| GPIO      | 6-bit GPIO (Optional)                      |
| CAN Bus   | 2 CAN Bus support CAN FD (Optional)        |
| Micro USB | 1 Micro USB console debug port             |
| Button    | - 1 User-define Button<br>- 1 Reset Button |
| LED       | Power, Ready, 2 WLAN                       |
| SIM       | 2 Nano SIM Card Socket                     |
| Antenna   | 6 Antenna for WiFi/BT/5G/4G/LTE/GPRS/UMTS  |

### Expansion

|           |                                                    |
|-----------|----------------------------------------------------|
| M.2       | 1 M.2 Key B Socket (3042/3052, PCIe/USB3(Default)) |
| Mini PCIe | 1 Full-size Mini PCIe Socket                       |

### Graphics

|              |                                                       |
|--------------|-------------------------------------------------------|
| Interface    | 1 Digital Display, up to 3840 x 2160 @30Hz            |
| Video Encode | - HEVC : Up to 1080p @60<br>- H.264 : Up to 1080p @60 |
| Video Decode | - HEVC : Up to 1080p @60<br>- H.264 : Up to 1080p @60 |

### Storage

|      |                                      |
|------|--------------------------------------|
| eMMC | 1 eMMC, 32GB                         |
| SD   | 1 Micro SD, supports SDHC (External) |

### Ethernet

|       |                                                                   |
|-------|-------------------------------------------------------------------|
| LAN 1 | 10/100/1000 Base-T Ethernet GigE LAN supports TSN, RJ45 Connector |
| LAN 2 | 10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector              |

### Power

|                 |                                             |
|-----------------|---------------------------------------------|
| Power Input     | DC 9V to 55V                                |
| Power Interface | 3-pin Terminal Block : V+, V-, Frame Ground |

### Mechanical

|            |                                                                |
|------------|----------------------------------------------------------------|
| Dimensions | 130 mm x 78.5 mm x 42 mm (5.12" x 3.09" x 1.65")               |
| Weight     | 0.5 kg (1.1 lbs)                                               |
| Mounting   | - Wallmount by mounting bracket<br>- DIN Rail Mount (Optional) |

### Environment

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Operating Temp.   | -25°C to 70°C (-13°F to 158°F)                                 |
| Storage Temp.     | -40°C to 85°C (-40°F to 185°F)                                 |
| Humidity          | 5% to 95% Humidity, non-condensing                             |
| Relative Humidity | 95% @70°C                                                      |
| Shock             | Operating, MIL-STD-810G, Method 516.7, Procedure I             |
| Vibration         | Operating, MIL-STD-810G, Method 514.7, Procedure I, Category 4 |
| EMC               | CE, FCC, EN50155, EN50121-3-2                                  |

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## Order Information

| Model Name | Platform         | LAN | USB 3.0 | Serial | Digital Display | M.2 | SIM |
|------------|------------------|-----|---------|--------|-----------------|-----|-----|
| EIC-2000   | NXP i.MX 8M Plus | 2   | 2       | 2      | 1               | 1   | 2   |

### Accessories

|                  |                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------|
| PWA-60WP3-WT     | 60W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C |
| PWA-60WP3-WT-12V | 60W, 12V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C |
| DIN-RAIL         | DIN Rail Kit                                                                                         |
| 5G Module        | 5G Module with Antenna                                                                               |
| 4G Module        | 4G/GPS Module with Antenna                                                                           |
| WiFi & Bluetooth | WiFi & Bluetooth Module with Antenna                                                                 |

## Dimensions & Drawing

Unit : mm (inch)

