**Processor:**
i.MX6 Cortex™ A9 MPCORE™

**Software:**
LINUX (Ubuntu) / Android Nougat

# NOVA – McIMX6 Low-Cost CPU Module

The single board computer NOVA which has an expansion board to carry the VERA i.MX6 is one of our design of the base plate. The flexible design allows the fast and easy way of realizing and upgrading the controller's capabilities.

In additional to those features offered by VERA i.MX6, the NOVA features 5 serial ports (5 TTL), 1 USB OTG, 1 Ethernet ports, SDIO, STA, PCIE, HDMI, LCD, CAN, CSI, MCASP, 2 SPI, 3 I2C, LVDS, PWM, RTC, GPIOs and more other peripherals. The single board targets a wide range of applications, including: HMIs, Digital Signage, POS, Data Terminal, Medical Devices, Navigation, Industrial Automation, entertainment System, Thin clients, Robotics, Game Console and much more.

# Features of the SBC Nova i.MX6

| CPU | |
|---|---|
| CPU Name | VERA iMX6 Solo, Dual Lite, Dual e Quad |
| CPU Type | iMX6 Solo, Dual Lite, Dual e Quad |
| Cores | 1, 2, 4 |
| **Peripherals** | |
| SD/MMC | X1 |
| USB Host / Device | X4 2 externals 2 internals |
| UART | X2 |
| I2C | X2 |
| SPI | X2 |
| S-ATA | X1 mSATA |
| RTC | X1 |
| PCI – Express | X1 |
| CAN | X1 |
| Ethernet | X1 |
| GPIOz | X30 |
| **Camera** | |
| CSI-2 | X1 |
| CSI parallel | X1 |
| **Multimedia** | |
| 2D/3D Graphics | X1 |
| Video Encode / Decode | 1080p30 H. 264 Decode 1080p60 H. 264 Decode |
| Camera Interface | 1x CSI, 1x CPI |

| Memory | |
|---|---|
| RAM | 156 – 4096 MB DDR3L |
| eMMC | FROM 4 to 64Gbyte |
| NOR | SPI 16Mbyte |
| **Software Support** | |
| Linux | Kernel 4.1.15 YOCTO |
| Android | 7.1 Nougat |
| Ubuntu | 18.04 |
| **Mechanical Specifications** | |
| Dimensions (W x L x H) | 102x146mm |
| **Electrical Specifications** | |
| Power Supply | 12VDC |
| Consumption | 500mA |
| **Environmental Specifications** | |
| Commercial Temperature (0 to 70ºC) | Available |
| Extended Temperature (-20 to 70ºC) | Available |
| Industrial Temperature (-40 to 85ºC) | Available |
| **Longevity** | |
| Minimum Availability | 2028 |

## Applications

• Medical

• Multimedia

• Security

• Industrial