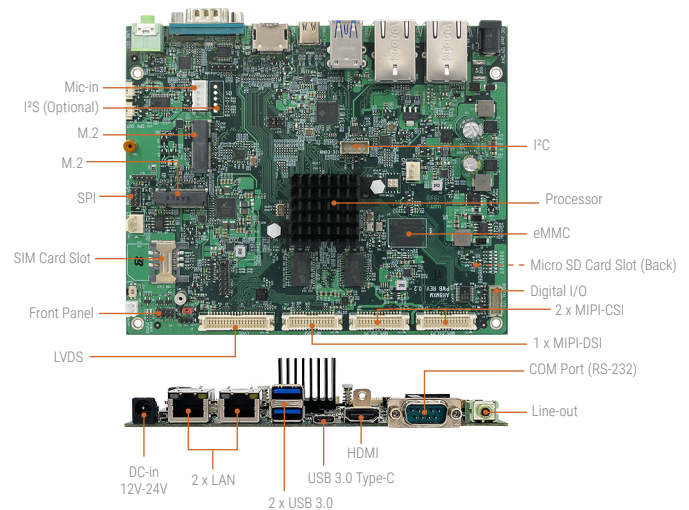


Features

- NXP i.MX 8M Cortex A53/ Cortex M4, Quad Core Processor up to 1.5 GHz
- 2GB Onboard DDR4 Memory (expandable up to 4GB Max)
- 16GB eMMC Onboard
- 2 x M.2 for Wi-Fi/BT/3G/4G
- 1 x SIM Card Socket, 1 x Micro SD Card Slot
- 1 x MIPI-DSI, 2 x MIPI-CSI, 1 x LVDS, 1 x HDMI 2.0
- 2 x USB 3.0 Type A, 1 x USB OTG Type C
- I²C, Optional I²S
- 12V ~ 24V DC Input



Specifications

System	
CPU	NXP i.MX 8M Cortex A53/ Cortex M4, Quad Core Processor up to 1.5 GHz
System Memory	2GB Onboard DDR4 Memory (expandable up to 4GB Max)
Expansion	1 x 2230 M.2 E Key for Wi-Fi/BT (PCIe & USB Channel) 1 x 3042 M.2 B Key for 3G/4G Module (USB Only) 1 x SIM Socket for 3G/4G Module
Storage	1 x Micro SD Card Slot 16GB eMMC Onboard
Supported OS	Android, Linux
Display	
Chipset	Vivante® GC7000Lite Integrated Graphic
Interface	1 x LVDS Converts from MIPI-DSI 1 x HDMI 2.0 Output, 4K@60 capable
LVDS	TI® SN65DSI84 MIPI-DSI to LVDS Converter
External I/O	
Display	1 x HDMI
USB	2 x USB 3.0 Type A Connectors 1 x USB 3.0 OTG Type-C connector
COM	1 x RS-232 DB9 COM port
LAN	2 x RJ-45
Audio	1 x Line-out
DC	1 x Barrel Type Connector
Internal I/O	
Display	2 x MIPI-CSI Header 1 x MIPI-DSI Header 1 x LVDS Header
USB	1 x USB 2.0 Header (1 Port) Shared with M.2 B Key
Audio	1 x Mic-in 2 x Speaker Header (Through Audio AMP)
MIO	1 x CAN Bus Header, 1 x I ² C Headers, 1 x I ² S Header, 1 x SPI Header, 1 x Digital I/O, 1 x Front Panel Pin Header

Audio	
Chipset	Wolfson® WM8960 Ultra Low Power Audio Codec
Amplifier	TI® TPA2008D2 3-W Stereo Class-D Audio Amplifier
Ethernet	
LAN 1	Micrel® KSZ9031 Gigabit Ethernet
LAN 2	Realtek® RTL8119G PCIe Gigabit Ethernet
Mechanical & Environment	
Power Requirement	12V ~ 24V DC Input
Operating Temp.	0° ~ 60°C (32° ~ 140°F)
Storage Temp.	-20° ~ 80°C (-4° ~ 176°F)
Operating Humidity	5% ~ 90% Relative Humidity, Non-condensing
Dimensions	6.3" x 5.125" (160mm x 130mm)
Certification Information	CE, FCC Class B
Weight	7 oz

* All product specifications and images are subject to change without notice. Last update: 2021/02/03