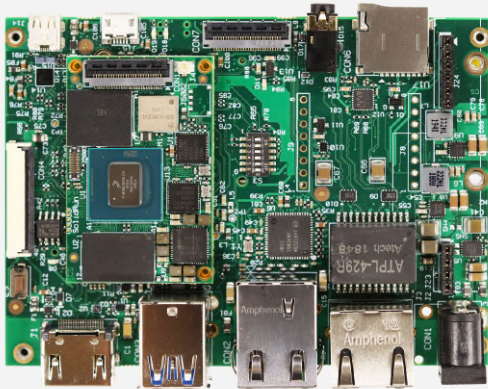


# HummingBoard Pulse SBC

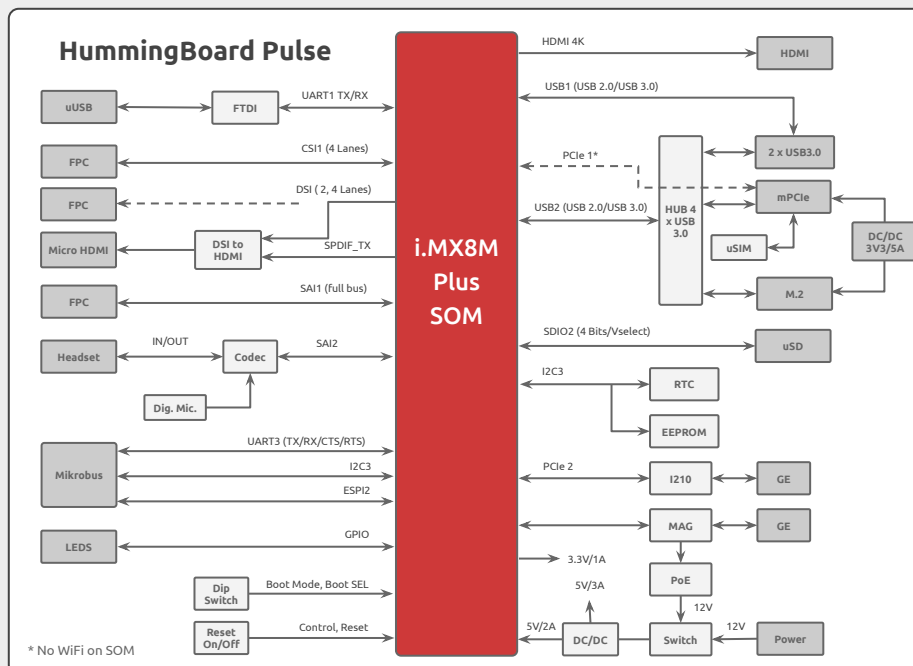
Up to 4 x Arm Cortex-A53 cores



- SoC: NXP i.MX8M Plus based Dual to Quad Core SOM Cortex A53 / NXP i.MX8M Mini based Single to Quad Core SOM Cortex A53
- Memory: Up to 4GB
- Storage: 8GB eMMC
- Temperature: Commercial (0C to 70C), Industrial (-40C to 85C)
- OS: Linux



	i.MX8M Mini	i.MX8M Plus
<b>I/O</b>	2 x USB 2.0 1 x MIPI-CSI 1 X Digital audio (Riser interface FPC connector) 1 x Onboard audio codec	2 x USB 3.0 1 x MIPI-CSI 1 X Digital audio (Riser interface FPC connector) 1 x Onboard audio codec
<b>CPU Type</b>	2 x Ethernet RJ45 10/100/1000 1 x 802.11 a/b/g/n/ac WiFi and Bluetooth (2.4/5 GHz)	2 x Ethernet RJ45 10/100/1000 1 x 802.11 a/b/g/n/ac WiFi and Bluetooth (2.4/5 GHz)
<b>Processor</b>	NXP i.MX 8M Mini Single to Quad core Arm Cortex A53 up to 1.8GHz (with Arm M4 GPP)	NXP i.MX 8M Plus Dual/Quad core Arm Cortex A53 up to 1.8GHz (with Arm M7 GPP)
<b>Memory &amp; Storage</b>	Up to 4GB LPDDR4 8GB eMMC MicroSD	Up to 4GB LPDDR4 8GB eMMC MicroSD
<b>Display</b>	HDMI MIPI-DSI	HDMI MIPI-DSI
<b>Misc.</b>	1 x Reset button 1x Configurable push button 3 x LED indicators RTC	1 x Reset button 1x Configurable push button 3 x LED indicators RTC
<b>Development and Debug interfaces</b>	Micro USB	Micro USB
<b>Power</b>	7V - 36V PoE sink support 802.3af class 0	7V - 36V PoE sink support 802.3af class 0
<b>Expansion card I/Os</b>	M.2 Mini PCIe with SIM holder	M.2 Mini PCIe with SIM holder
<b>Temperature</b>	Commercial: 0°C to 70°C Industrial: -40°C to 85°C	Commercial: 0°C to 70°C Industrial: -40°C to 85°C
<b>Dimensions</b>	PCBA: 100 x 70mm Enclosure: 142 x 80 x 30mm	PCBA: 100 x 70mm Enclosure: 142 x 80 x 30mm
<b>Enclosure</b>	Extruded aluminum	Extruded aluminum

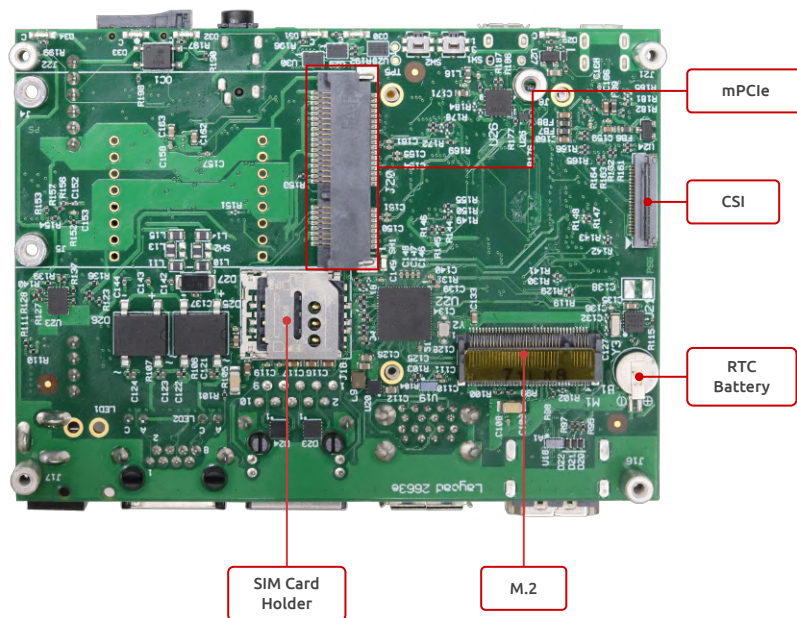
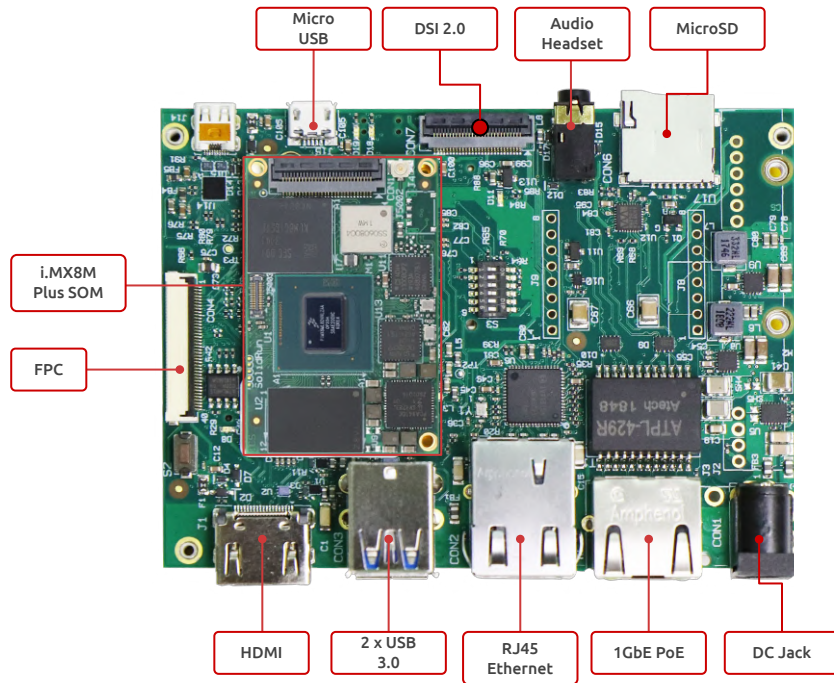


## Ordering Information

Available on Shop	
SKU	Description
<a href="#">SRMX8DUW00D01GE008U02CH</a>	SOM i.MX8M Dual   HummingBoard Pulse   No WiFi/BT   1GB RAM   8GB eMMC   Com.Temp   R02   Inc. Heatsink
<a href="#">SRMX8DUWB1D01GE008U02CH</a>	SOM i.MX8M Dual   HummingBoard Pulse   Inc. WiFi/BT   1GB RAM   8GB eMMC   Com.Temp   R02   Inc. Heatsink
<a href="#">SRMX8ODW00D03GE008U02CH</a>	SOM i.MX8M Quad   HummingBoard Pulse   No WiFi/BT   3GB RAM   8GB eMMC   Com.Temp   R02   Inc. Heatsink
<a href="#">SRMX8ODWB1D03GE008U02CH</a>	SOM i.MX8M Quad   HummingBoard Pulse   Inc. WiFi/BT   3GB RAM   8GB eMMC   Com.Temp   R02   Inc. Heatsink
<a href="#">SRMP8ODWB1D01GE008U02CH</a>	SOM i.MX8M Plus Quad   HummingBoard Pulse   Inc. WiFi/BT   1GB RAM   8GB eMMC   Com.Temp   R02   Inc. Heatsink
<a href="#">SRMP8ODW00D01GE008U02CH</a>	SOM i.MX8M Plus Quad   HummingBoard Pulse   No WiFi/BT   1GB RAM   8GB eMMC   Com.Temp   R02   Inc. Heatsink
<a href="#">SRMM8ODWB1D02GE008U02CH</a>	SOM i.MX8M Mini Quad   HummingBoard Pulse   Inc. WiFi/BT   2GB RAM   8GB eMMC   Com.Temp   R02   Inc. Heatsink
<a href="#">SRMM8-KIT001</a>	i.MX8 Mini Starter Kit - SOM i.MX8M Mini Quad   HummingBoard Pulse   Inc. WiFi/BT   1GB RAM   8GB eMMC   Com.Temp   R02   Inc. Heatsink   12V 1.5A Power adapter   Micro SD   USB to Micro USB Cable   WiFi Antenna
<a href="#">SRMP8-KIT001</a>	i.MX8 Plus Starter Kit - SOM i.MX8M Plus Quad   HummingBoard Pulse   Inc. WiFi/BT   1GB RAM   8GB eMMC   Com.Temp   R02   Inc. Heatsink   12V 1.5A Power adapter   Micro SD   USB to Micro USB Cable   WiFi Antenna

- To choose your ideal configuration see our [Product Configurator Tool](#)

Accessories:	
SKU	Description
<a href="#">PA00012</a>	12V 1.5A US Power Adapter
<a href="#">PA00013</a>	12V 1.5A EU Power Adapter
<a href="#">AN00016</a>	2.4/5GHz SMA Antenna
<a href="#">AN00009</a>	2.4GHz SMA Antenna
<a href="#">MSD016B</a>	Micro SD 16GB
<a href="#">QT00EC25AU</a>	Quectel EC25AU - LTE Cat 4 AU
<a href="#">QT00EC25A</a>	Quectel EC25AU - LTE Cat 4 US
<a href="#">QT00EC25E</a>	Quectel EC25AU - LTE Cat 4 EU
<a href="#">WI00002</a>	USB to MicroUSB cable



For more information about the HummingBoard Pulse Software/Hardware visit our:

[Developer Center](#)