

iEC-N148

NXP i.MX 8M Plus, SMARC System-on-Module



Product Feature:

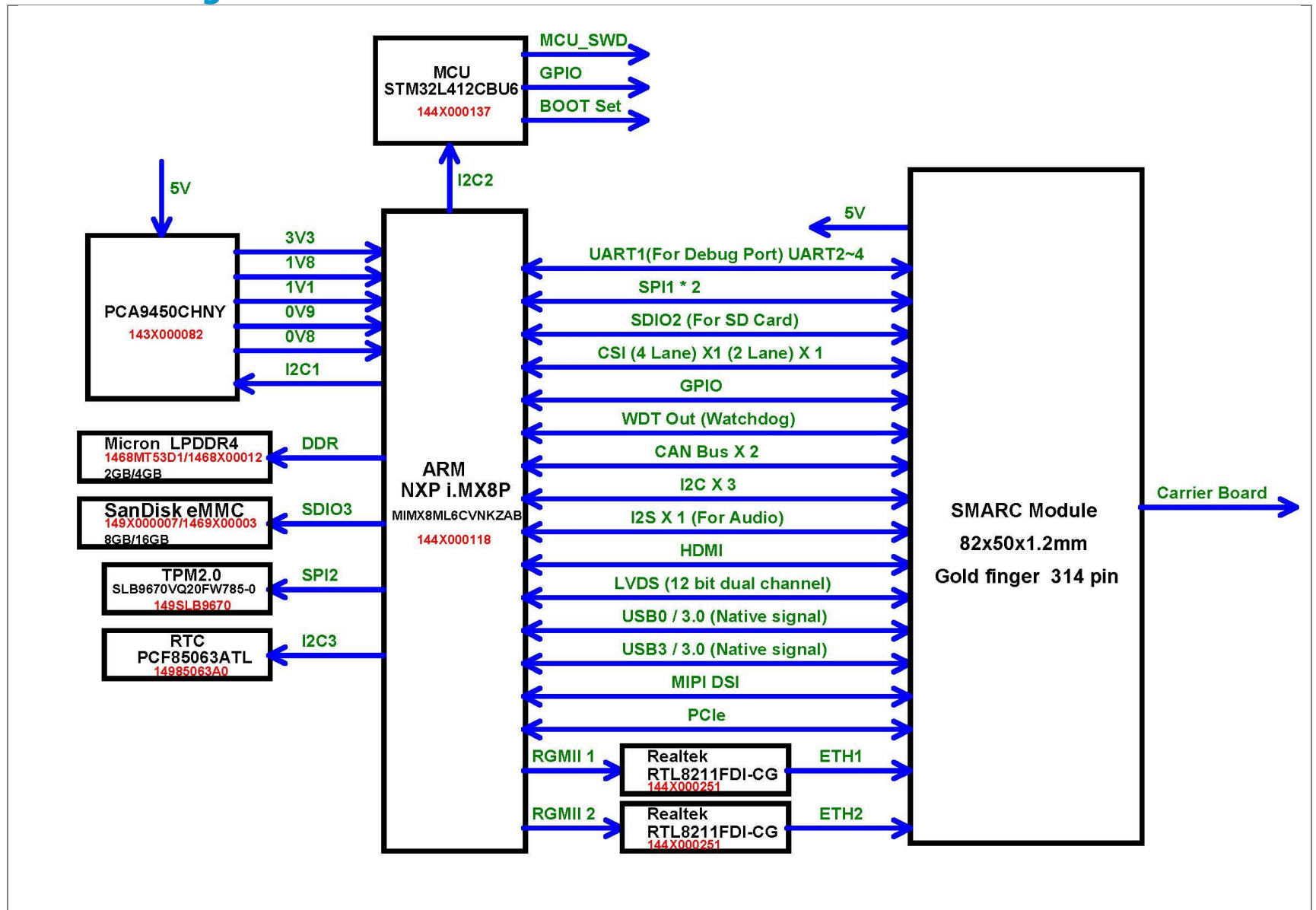
- NXP i.MX 8M Plus Quad-core Cortex-A53/M7
- Short-sized SMARC (82 x 50mm) with MXM3 connector
- 8GB LPDDR4, 32GB eMMC
- Double display: HDMI 2.0, LVDS
- Industrial operating temperature: -40°C ~ 85°C

Specifications

System	
CPU/MCU	NXP i.MX 8M Plus Quad-core Cortex-A53/M7 Processor
Memory	8GB LPDDR4
Storage	32GB eMMC
Real time clock	--
Indicators	--
Cellular	--
Wireless LAN	--
Operating System	--
Support Protocol	--
Power Supply	
Power Requirement	5V
Power Consumption	--
MTBF (Hours)	--
Environmental and Mechanical	
Dimension	3.22" x1.96" (82 x 50 mm)
Weight	20 g
Mouting/Installation	--
Operating Temperature	-40 °F ~ 185 °F (-40 °C ~ 85 °C)
Storage Temperature	-40 °F ~ 185 °F (-40 °C ~ 85 °C)
Operating Humidity	5% ~ 95% relative humidity, non-condensing
Certification	
Regulations	--
Carrier	--

Interface(Supply by carry board)	
Serial Port	--
Ethernet	2 x Ethernet 10/100/1000
USB	2 x USB3.0
ADC	--
DI/DO	--
AI/AO	--
CAN Bus	2 x CAN Bus
Display	1 x HDMI 2.0 1080P@60 1 x 4 Lane LVDS
Video Input	MIPI CSI 4-lane, MIPI DSI 4-lane with PHY
Power Connector	--
Debug Port	--
Expansion Slot	1 x SD slot 1 x PCIe Gen3
Other Interface	2 x SPI 5 x GPIO 1.8V

Block Diagram



Ordering Information

Part Number	Packing List
2IEC-N148-01 SOM, NXP i.MX 8M Plus, 1.6GHz, 8G RAM, 32GB eMMC	--