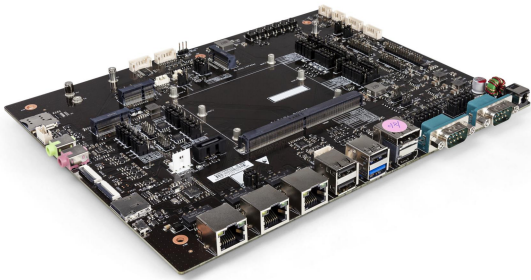


# JSOM-SC211

## SMARC 2.1.1 Development Board

JSOM-SC211 is an evaluation carrier board designed for the JSOM series Arm-based SMARC 2.1.1 Computer-on-Modules. It offers a wide range of interfaces and expansion options and supports -40~85°C operating temperature.

JSOM-SC211 is offered along with carrier board reference design schematics and layout checklist documentation, allowing for easy custom carrier board development and accelerating time-to-market.

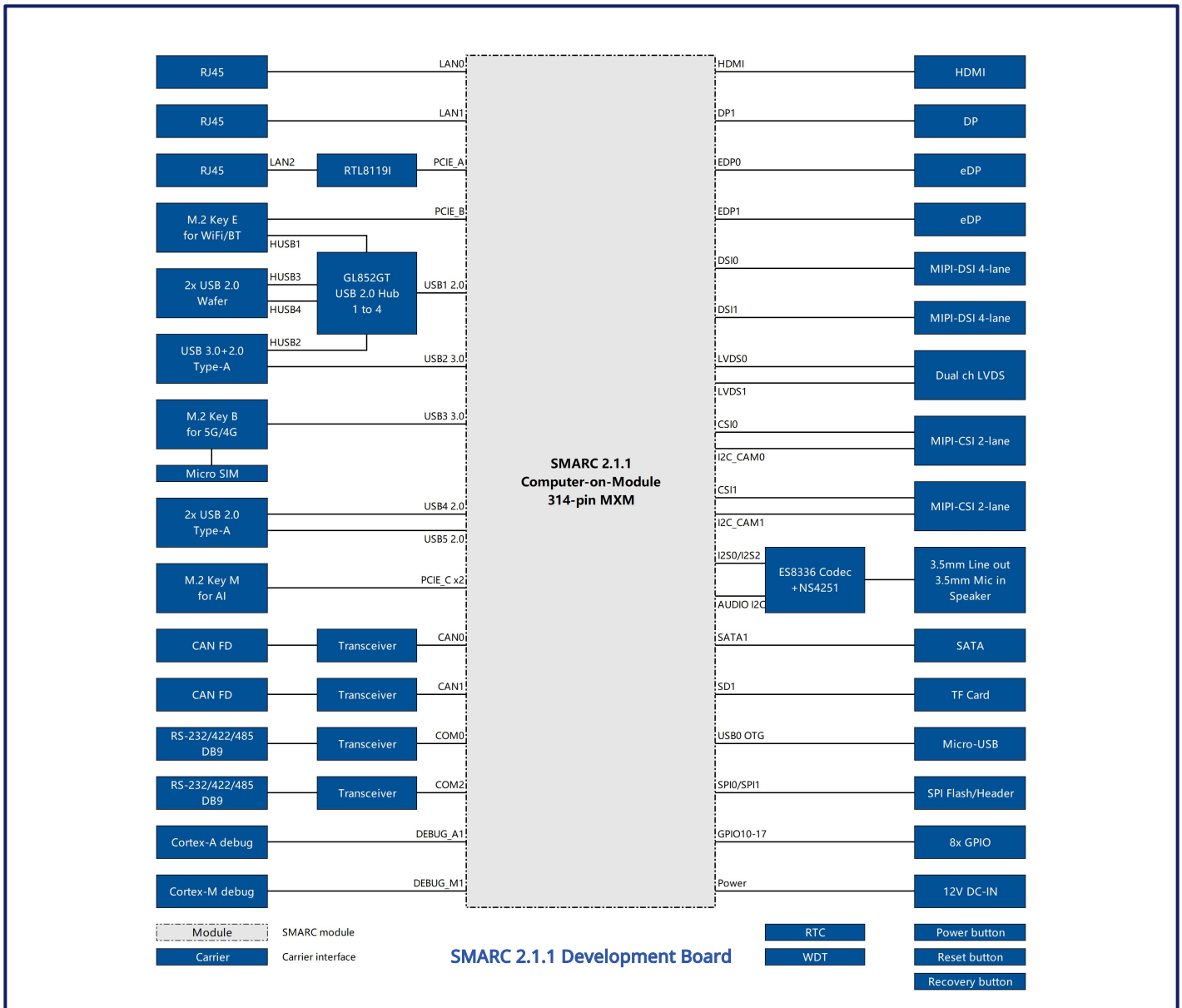


- Compatible with JSOM SMARC 2.1.1 modules
- Multimedia: HDMI, DP, eDP, LVDS, MIPI-DSI, MIPI-CSI
- I/O: 1x SATA, 6x USB, 4x COM, 2x CAN, 2x SPI, 8x GPIO
- Supports 3x GbE for RGMII or PCIe applications
- Supports WiFi, BT, 5G/4G wireless expansion
- Supports M.2 PCIe x2 AI acceleration expansion
- Supports -40~85°C operating temperature

## 01 Specifications

<b>Compatible Module</b>	JSOM-N8MC, JSOM-N8PC, JSOM-R68C, JSOM-R88C
<b>Ethernet</b>	2x RJ45, 10/100/1000 Mbps for RGMII application 1x RJ45, 10/100/1000 Mbps for PCIe application (RTL8119I on carrier)
<b>WiFi</b>	1x M.2 Key E for WiFi/BT (PCIe x1/USB 2.0)
<b>5G/4G</b>	1x M.2 Key B for 4G/5G (USB 3.0), 1x Micro SIM slot
<b>Expansion</b>	1x M.2 Key M for AI accelerator or NVMe SSD (PCIe x2) 1x SATA 3.0 connector, 1x SATA Power connector 1x Micro SD slot for storage or OS image flashing
<b>Display</b>	1x HDMI Type-A up to 4K60 1x DP Type-A up to 4K60 2x 4-lane eDP (2x10-pin 2.0mm header) 1x Dual channel LVDS (2x16-pin 2.0mm header) 2x Backlight (5V/12V, 1x6-pin 2.0mm wafer) 2x 4-lane MIPI-DSI (31-pin 0.3mm FPC)
<b>Camera Input</b>	2x 2-lane MIPI-CSI (24-pin 0.5mm FPC)
<b>Audio</b>	1x 3.5mm Line out 1x 3.5mm Mic in 1x Speaker (2x3W) via pin header
<b>USB</b>	1x USB 3.0 Type-A 3x USB 2.0 Type-A 2x USB 2.0 via pin headers 1x Micro USB OTG for OS image flashing
<b>Serial Port</b>	2x 4-wire Isolated RS-232/422/485 via DB9 1x 2-wire TTL for Cortex-A debug via pin header 1x 2-wire TTL for Cortex-M debug via pin header
<b>CAN</b>	2x CAN FD via pin headers
<b>SPI</b>	2x SPI via pin headers
<b>GPIO</b>	8x GPIO via pin headers
<b>Board Features</b>	Watchdog Timer, RTC, Power button, Reset/Recovery button
<b>Power Supply</b>	12V DC IN via 5.5x2.5mm DC Jack, supports Lithium battery power
<b>Operating Conditions</b>	-40~85°C, 10%~90% RH non-condensing
<b>Storage Conditions</b>	-40~85°C, 5%~95% RH non-condensing

# 02 Block Diagram



# 03 Order Information

Part Number	Description	Compatible Modules
JSOM-SC211-DC01	HDMI DC mode	JSOM-N8MC, JSOM-N8PC, JSOM-R68C
JSOM-SC211-AC01	HDMI AC mode	JSOM-R88C