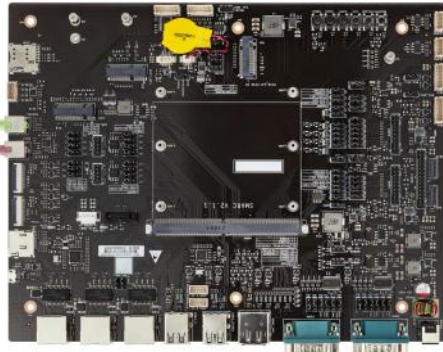


JSOM-SC211

Evaluation Carrier for SMARC 2.1.1 Modules

JWIPC's JSOM-SC211 is an Evaluation Carrier Board designed for the JSOM series Arm-based SMARC 2.1.1 Computer-on-Modules. Offering a broad range of interface options with verified solutions, JSOM-SC211 allows embedded application developers to accelerate their custom carrier board and system designs. Compatible SMARC modules include: JSOM-N8MC, JSOM-N8PC, JSOM-R68C, JSOM-R88C.

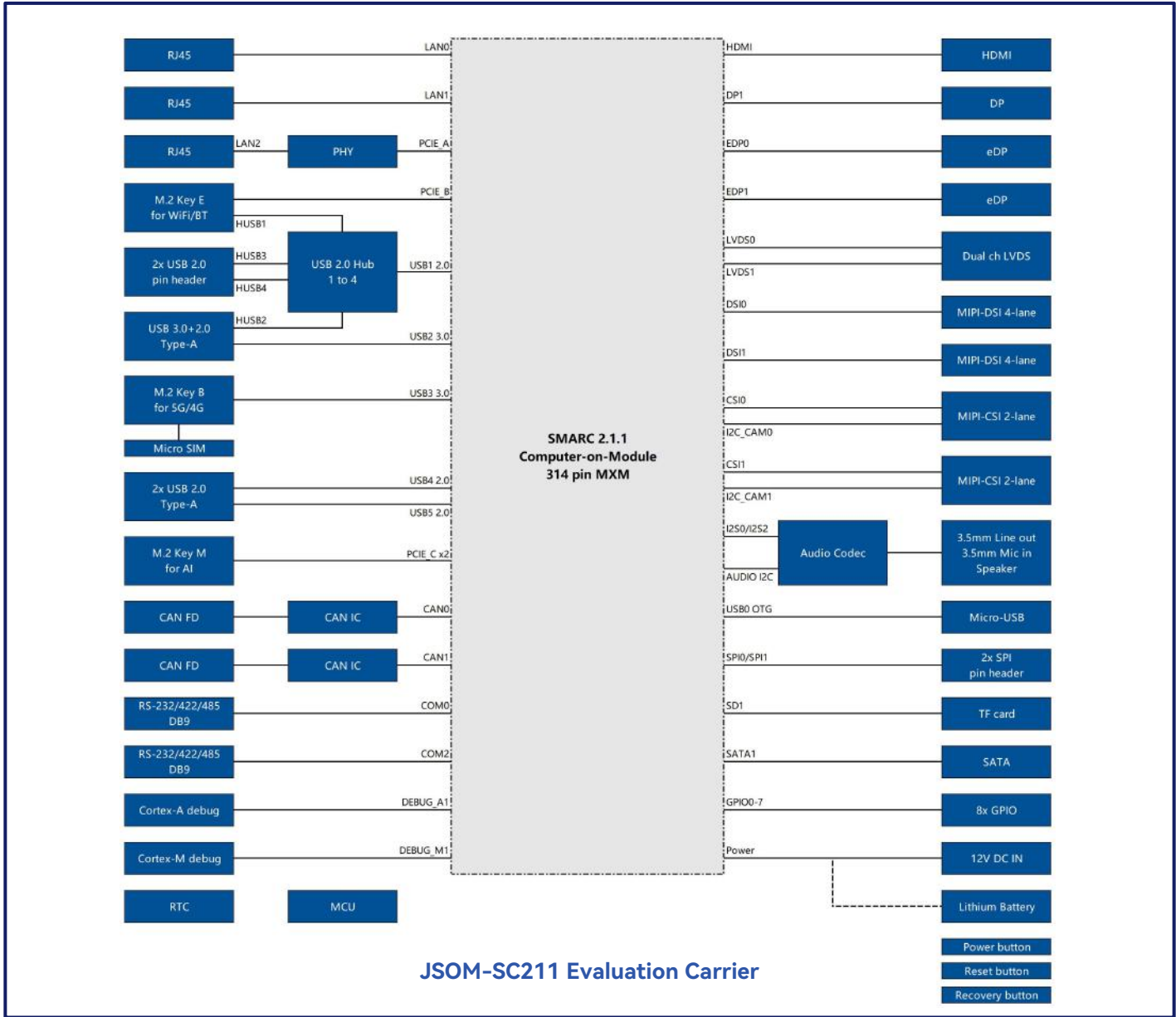


- Evaluation Carrier Board for SMARC 2.1.1 modules
- Display: HDMI, DP, eDP, LVDS, MIPI-DSI
- I/O: USB, COM, CAN, SATA, SPI, GPIO
- 3x GbE, supports RGMII & PCIe solutions
- Supports WiFi/BT/4G/5G expansion
- Supports M.2 PCIe x2 AI expansion
- Supports DC 12V & Lithium battery power

Specifications

| | |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compatible Module | Supports Arm-based SMARC 2.1.1 modules Supports 82mm x 50mm, 82mm x 65mm, 82mm x 80mm sizes |
| Ethernet | 3x 10/100/1000 Mbps (2 via PHY on module, 1 via PCIe controller on carrier) |
| WiFi | 1x M.2 Key E (PCIe x1/USB) for WiFi/BT |
| 5G/4G | 1x M.2 Key B (USB 3.0) for 4G/5G, 1x Micro SIM slot |
| Expansion | 1x M.2 Key M (PCIe x2) for AI accelerator or NVMe SSD |
| Display | 1x HDMI Type-A 1x DP Type-A 2x eDP 20 pin 2.0mm Dupont header 1x Dual channel LVDS 32 pin 2.0mm Dupont header 2x 4-lane MIPI-DSI 31 pin FPC |
| Camera Input | 2x 2-lane MIPI-CSI 24 pin FPC |
| Audio | 1x 3.5mm Line out, 1x 3.5mm Mic in, 1x Speaker 3W/8Ω amplifier with dynamic gain |
| USB | 1x USB 3.0 Type-A 3x USB 2.0 Type-A 2x USB 2.0 pin header 1x Micro USB OTG |
| COM | 2x RS-232/422/485 opto-isolated DB9 1x 2-wire TTL pin header for Cortex-A debug 1x 2-wire TTL pin header for Cortex-M debug |
| CAN | 2x CAN FD/2.0 pin header |
| SATA | 1 |
| TF Card | 1 |
| SPI | 2, 1.8V |
| GPIO | 8 |
| Watchdog Timer | SoC or carrier MCU for external watchdog timer |
| Power Supply | 12V DC in, supports Lithium battery power |
| Buttons | 1x Power button, 1x Reset button, 1x Recovery button |
| Operating Conditions | -40~85°C, 5%~95% RH non-condensing |

02 Block Diagram



03 Order Information

| Part No. | Description | Supported Modules |
|-----------------|-----------------------|---------------------------------|
| JSOM-SC211-DC01 | Supports HDMI DC mode | JSOM-N8MC, JSOM-N8PC, JSOM-R68C |
| JSOM-SC211-AC01 | Supports HDMI AC mode | JSOM-R88C |