

IB3-9931

CARRIER BOARD FOR SMARC2.1.1



Compatible with
SMARC v2.1.1 Modules



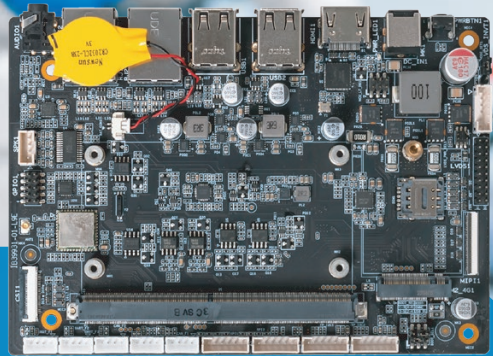
1 x HDMI1.4 (3840 x 2160 @30 Hz)
1 x LVDS (1280 x 720 @60 Hz)



Onboard Wi-Fi/BT module
Support 3G/4G module



3.5inch form-factor
146 mm x 102 mm (5.74" x 4.02")



System

Compatible Module	SMARC v2.1.1 Module
Memory	By SMARC v2.1.1 Module
Storage	By SMARC v2.1.1 Module
TPM	By SMARC v2.1.1 Module
Network Controller	By SMARC v2.1.1 Module
Wi-Fi/BT	Onboard Wi-Fi/BT Module
Mobile Network	1 x M-Key M.2 (3042) for 3G/4G 1 x Nano SIM Slot
Power Requirement	DC-IN, 9 V ~ 36 V
Dimensions	146 mm x 102 mm (5.74" x 4.02")
Cooling System	Fanless, passive cooling
Operating Temperature	0°C ~60°C (32°F~140°F) @0.7m/s Air Flow
Storage Temperature	-20°C ~75°C (-4°F~167°F)
Humidity	95% @ 60°C (non-condensing)

Order information

IB3-9931	CPU: NA / Memory: NA / Storage: NA Wi-Fi/BT: RTL8723DS module
Optional	SMARC v2.1.1 Module: Giada iM1-9931

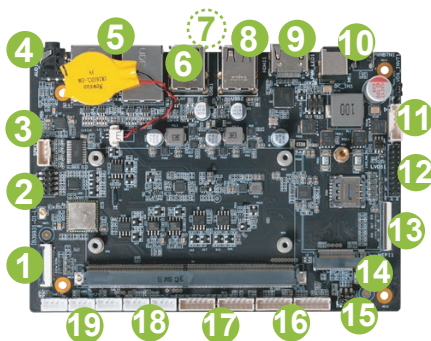
Rear I/O

USB	3 x USB2.0, 1 x USB2.0 OTG
Display Interface	1 x HDMI1.4 (Max.3840 x 2160 @30 Hz), colay with MIPI-DSI
Audio Interface	1 x 2-IN-1 Headset AUDIO-OUT & MIC-IN
Ethernet Interface	1 x 1GbE RJ45

Internal I/O

USB	NA
Display	2 x 10pin single channel LVDS (Max. 1280 x 720 @60 Hz) 1 x 4-lane MIPI-DSI (Max. 1920 x 1080 @60 Hz) Optional: eDP colay with LVDS
Serial port	1 x RS232, signal by 1 x 4pin header 2 x RS485, signal by 2 x 4pin header 2 x 6pin TP_I2C
GPIO	2 x 5pin GPIO, 4 x GPI, 4 x GPO
Audio	1 x 4pin SPEAKER
Others	1 x MIPI-CSI, 2 x 4pin CAN-FD, 2 x 6pin SPI, 1 x 6pin U-Boot

Dimensions and Drawing



No.	Dimensions
1	MIPI-CSI
2	GPIO
3	SPEAKER
4	HEADSET
5	2*RJ45
6	USB2.0 OTG (TOP)
7	USB2.0
8	2*USB2.0
9	HDMI1.4
10	DC-IN

No.	Dimensions
11	LVDS_BKL
12	LVDS
13	MIPI-DSI
14	M.2 (3042)
15	U-BOOT
16	2*TP_I2C
17	2*SPI
18	2*CAN-FD
19	3*COM HEADER