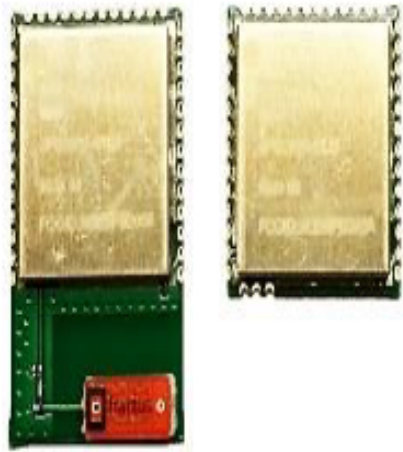


SPB209A WLAN and Bluetooth Module



TRIA SPB209A

14 x 14 x 2,5 mm



W

-40 +85 °C



Highlights

- IEEE 802.11ac compliant
- IEEE 802.11 PHY data rates of up to 433 Mbps
- Driver support for Linux
- Advanced Power management system allowing “Always On”
- Bluetooth 4.2
- Internal co-existence arbitration
- FCC and CE approved reference design
- Interfaces SDIO 3.0, HS UART, PCM
- Industrial temp range -40 to +85C°
- High RF output TX power
- Supports multiple SW features such as 802.11 e/i (Security, QoS), Soft AP and Wi-Fi Direct
- Extensive DMA hardware support for data flow to reduce CPU load
- RoHS compliant

SPB209A WLAN and Bluetooth Module



Technical Data

Wireless Network Standard Support	IEEE 802.11a/b/g/n/ac, BT4.2
Frequency Band	Dual, 2.4/5 GHz
Data rates	802.11 a/b/g standard rates 802.11n 20/40Mhz channels 802.11ac 20/40/80Mhz channels up to 433Mbps Bluetooth BR, EDR 2Mbps
Hardware interfaces	SDIO 3.0, UART, GPIO:s – Host / PCM – BT Audio
WLAN functions, QoS	Power save modes, automatic roaming, Ad-hoc, Soft AP, Wi-Fi Direct and Infrastructure mode
Wireless Security	✓ WEP-64 ✓ WEP-128 ✓ WPA-PSK ✓ WPA2-PSK
NFC	Functions: R/W, Card Emulation and P2P
Bluetooth	BT for stereo audio and data BLE for fast configuration and sensor data upload
HW dimensions	14 mm x 14 mm x 2.5 mm
Output power	802.11 b: 18 dBm 802.11 a/g/n/ac: 15 dBm Bluetooth: 7 dBm
Power consumption	2.5GHz HT20: Wi-Fi IEEE 802.11 b TX 295mA RX:51mA Wi-Fi IEEE 802.11 g/n/ac: TX 285mA / RX 66mA 5GHz HT80: Wi-Fi IEEE 802.11 ac MCS9: TX 330mA / RX 121mA BT BT TX (+4dBm) 22mA / RX 17mA
Supply Voltage	3.0-3.6V
Operating Temp.	-40 to + 85°C (industrial)

Technical Data for TRIA SPB209A

SPB209A WLAN and Bluetooth Module



Order Reference

Part No.	Description	Integrated PCB Antenna	LTE Filter	Chip
SPB209A-LRNMQ	WLAN BT MODULE without Antenna without LTE Filter	No	No	88W8887-A2-CBKE/AZ
SPB209A-LRLMQ	WLAN BT MODULE without Antenna with LTE Filter	No	Yes	88W8887-A2-CBKE/AZ
SPB209A-LBNMZ	WLAN BT MODULE with Antenna without LTE Filter	Yes	No	88W8887-A2-CBKE/AZ
SPB209A-LBLMZ	WLAN BT MODULE with Antenna with LTE Filter	Yes	Yes	88W8887-A2-CBKE/AZ

Ordering Information for available SPB209A-versions

Tria Technologies GmbH
Industriestr. 16
76297 Stutensee
info@tria-technologies.com
tria-technologies.com

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