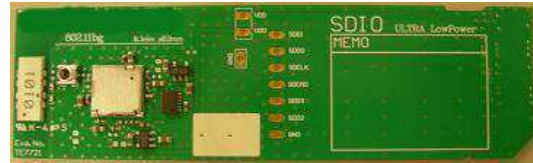


MaxR-602

SDIO 802.11 b/g WLAN Module

*Powered by
Arada Wireless Software Solution*



Platform Highlights

This SDIO 802.11 b/g WLAN module, based on the 802.11 protocol, is built with proprietary power MMICs and industrial-grade components. It is designed for reliable and demanding outdoor, enterprise, and carrier-class applications. The design integrates easily with embedded platforms to construct single or multiple-radio access points, wireless bridges, and consumer premises client equipment (CPE).

The compact size and low power consumption of this design make it an ideal vehicle for adding WLAN to hand-held and other battery-powered consumer electronic devices. The IEEE 802.11g (2.4 GHz) standard is supported by this chipset.

The card includes a highly integrated, RF front-end (Power Amplifier, Low-Noise Amplifier and RF switch) and high-frequency reference clock, enabling low-cost designs with minimal external components. Advanced architecture and protocol techniques save power during sleep, stand-by and active states.

Features

- IEEE802.11b/g standard conformity
- Modulation Barker, CCK (11b), OFDM (11g)
- Low standby current (with advanced power save and sleep mode)
- Transmit speed : 54/48/36/24/18/12/9/6 (11g), 11/5.5/2/1 Mbps(11b)
- Channel Number : 1 to 13 channel
- Interface : SDIO
- Built-in Antenna, Crystal , Shield case (w/o EEPROM)
- Security : WEP (64/128), AES, TKIP, WPA-Personal/Enterprise
- Small Outline : 83x 24 x 2.0mm
- RoHS Conformity

Technical Specifications

Chipset	Atheros AR6002 family	
Standards compliance	IEEE 802.11b/g compliant	
Transmit speeds	11b	11/5.5/2/1 Mbps
	11g	54/48/36/24/18/12/9/6 Mbps
Power Management	Advanced power management to minimize standby, sleep and active power	
Security	Security support for WPS, WPA2, WPA, WAPI and protected management frames	
2.4 GHz Support	Support for 2.4 GHz operation in all available bands in all regulatory domains	
QoS Support	Full 802.11e QoS support including WMM and U-APSD	
Antenna Diversity Support	Support for fast Tx and Rx antenna diversity allowing optimal antenna selection on a per-packet basis	
Interface Support	Supports both SDIO 1.1 and GSPI host interfaces.	
Regulatory Compliance	Pre-certified to meet FCC, ETSI, and TELEC standards	
Electromagnetic or RF Shielding	Integrated RF shielding	
I/O	SDIO	
Size	83 x 24 x 2.0 mm	
	External Case: None	
Antenna(s)	Built-in Antenna, Crystal , Shield case (w/o EEPROM)	
Operation Voltage	3.3V+/-3%	
Tx Output Power	11b	13dBm
	11g	12dBm
Rx Sensitivity	11b (11Mbps)	-87dBm
	11g (54Mbps)	-74dBm
Tx Power consumption	Burst mode 11g (54M, Duty 98%)	715mW
Rx Power consumption	Burst mode (11g 54M)	315mW
Power consumption	Sleep mode	2.2mW
IEEE 802.11b/g Compliant	802.11b: 1 to 11Mbps	
	802.11g: 6 to 54Mbps	
Hardware Security Supported	WEP (64/128), AES, TKIP, WPA-Personal/Enterprise	
OS Compatibility	Microsoft Windows Mobile 5.x/6.0, Linux	
Regulatory Approval	No regulatory agency approvals have been obtained on this product. It is intended for engineering development purposes only	