

Radio Specification

The RS-WC-201 module is a complete IEEE802.11bgn Wi-Fi client device with an integrated MAC, baseband processor, RF transceiver and power amplifier. Based on the Redpine's Lite-FiTMRS9110 MAC/baseband processor, the module provides a complete end-to-end solution for ultra low power WLAN applications. However IEEE802.11n is not used with RICOH THETA because it is used AP device.

Power setting

The RS-WC-201 use the following power setting which is the same as radio testing.

Typical Transmit Power (+/- 2 dBm) [average]

17 dBm for 802.11b DSSS

17 dBm for 802.11b CCK

15 dBm for 802.11g OFDM

Maximum output power [peak]

18.5 dBm for 802.11b DSSS

18.5 dBm for 802.11b CCK

16 dBm for 802.11g OFDM

Antennas Used

The RS-WC-201 module comes with an integrated chip antenna, and also a u.FL connector where an external antenna can be connected. A choice between the chip antenna and the external antenna can be made through a software command (Below mentioned in the table). However the external antenna is not used with RICOH THETA.

Antenna Number	Make	Model/Part #	Antenna Gain (dBi)	Type of Antenna
Antenna 1	Antenna Factor	ANT-2.45-CHP-x	0.5dBi	Chip antenna
Antenna 2	Pulse	W1043	2 dBi	External antenna

The above specification is set by manufacturer with module shipment, user cannot change it.