

# Theory of Operation for 2072290100 wireless module:

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The 2072290100 wireless module is a WiFi, Bluetooth, and Zigbee capable module based upon the Redpine Signals RS9113-NBZ-D0N module.

It uses an SDIO interface for control and traffic.

The Ground plane for the module is a solid plane throughout the PCB. The antenna is a Pulse Engineering W3513 PCB style antenna with RF cable terminating in a UFL connector.

The module power is controlled by a carrier device involving a microprocessor. This same microprocessor boots the module and loads low level code into it at the time of boot. After the boot, the microprocessor performs higher level network stack functions required for back end connectivity. When the module function is not needed, the module is powered down by the same microprocessor.