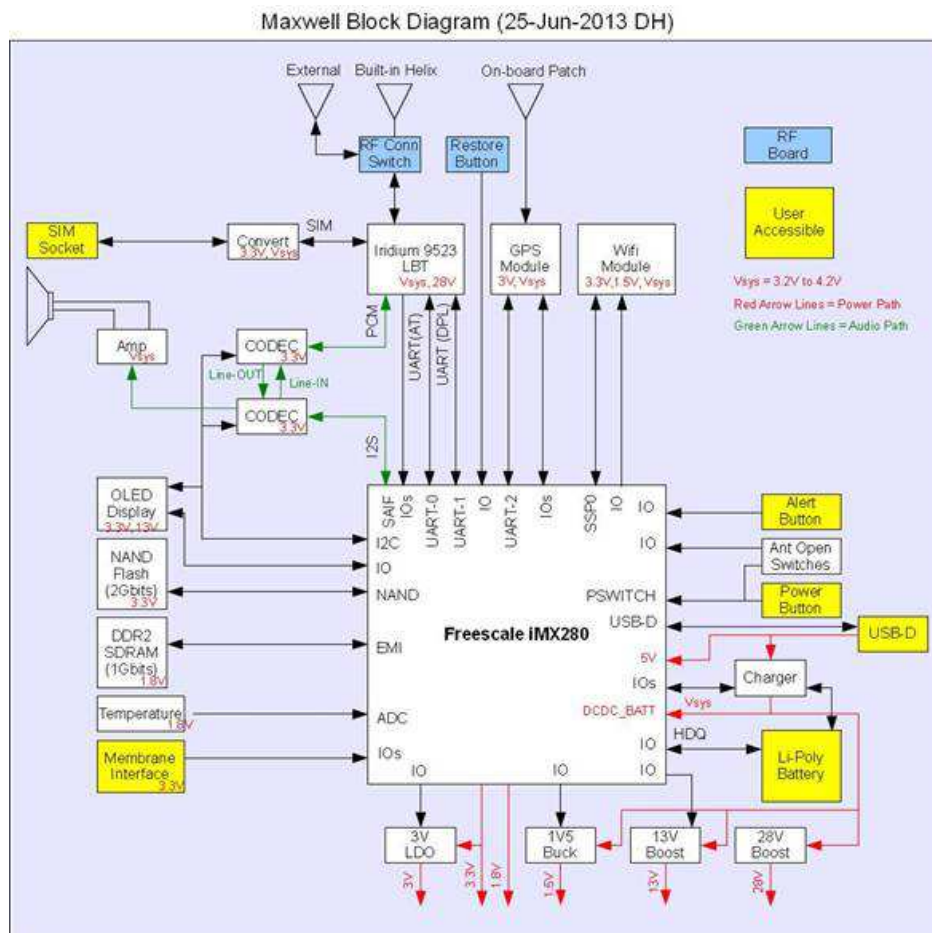


9560 – Technical Description

The 9560 device is a standalone transceiver for the Iridium network, which offers a Wi-Fi connection to a user's smart-phone device, or Laptop. The device has an integrated Iridium 9523 L-band transceiver, GPS receiver, and antennas. The device operates from an internal battery that is chargeable via the USB connector. The user has an App running on their smart phone that allows them to place satellite calls, send/receive SMS's and make a data call. Their Smartphone/laptop connects to the 9560 via a Wi-Fi and then the 9560 routes that call via the Iridium satellite network. Up to five separate users can be connected via Wi-Fi with the 9560 although only a single user can be in a call at one time.



The processor is the central element of the 9560 system and is running a Linux operating system with adequate performance requirements for a SIP server and other web services via WIFI.

The processor used in the 9560 is a Freescale iMX280 which contains a ARM926EJ-S core capable of running at 454MHz. It supports external DDR2 SDRAM and NAND flash. It also has the following built-in interfaces which are required to interface with other peripherals in the 9560.

- SDIO interface for WIFI module
- UARTS for GPS and Iridium 9523 transceiver module
- SAIF audio interface for Iridium 9523 transceiver module
- I2C Interface for OLED display and CODECs
- ADC interface for various voltage measurement including temperature sensor and hardware revision and modification control
- GPIO for User Interface buttons and control signals etc
- Built-in DC-DC converter for generating 3V3 for external peripherals and 1V8 for DDR2 SDRAM

Both the Iridium 9523 transceiver (FCC ID: Q639523) and Bluegiga WF111 (FCC ID: QOQWF111 with integrated antenna) modules have FCC modular approvals.