Mirage – WiFi, Bluetooth and NFC Module

Mirage provides concurrent 2.4 GHz Wi-Fi and Bluetooth /Bluetooth Smart functionality with NFC to the Sierra Wireless mangOH™ host platform for use in PAN (Personal Area Networks) and other IoT applications. The Mirage occupies only one 42mm x 22mm IoT slot on the mangOH™ platform yet provides 4 different radio connectivity options.

The Mirage IoT connector module is based on the TI WiLink™ WL1831MOD which provides best in class WiFi and Bluetooth performance.

Development Environment

The Sierra mangOH™ IoT platform is based on Legato open source Linux which is designed to simplify embedded IoT development.
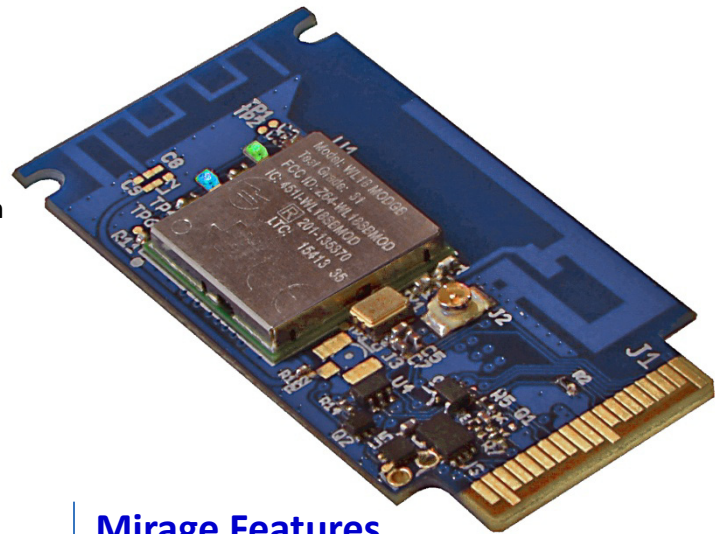
Legato has everything you need to connect the IoT fast:

- Programming language APIs -- dev tools and APIs to easily write software components and specify how apps will use them.

- Target runtime environment -- set of daemon processes cooperatively implement execution sandboxes, secure IPC, fault monitoring.

- Development and build tools -- target, host, and build tools to create apps ready for deployment to your devices.

- Documentation and automated tests -- a raft of docs and automated tests ready to use.

Applications

The FCC/IC/ETSI/CE/TELEC certified Mirage offers a low risk wireless option for a wide range of applications including:

- IoT Multimedia
- Medical
- Appliances / White Goods
- Industrial Automation
- Audio/Video Streaming
- Smart Gateway
- Lighting Control
- Video Conferencing

Mirage Features

Radio Features
- WiFi 802.11 a/b/g/n
- 20 and 40MHz SISO
- Bluetooth Classic 2.1
- Bluetooth Smart 4.1
- NFC Forum type 2 tag compliant
- NFC field detect – wake up feature
- Digital PCM Audio + SBC and A2DP
- Integrated high performance trace antennas
- Optional u.fl RF coax connector
- Low Power <2.5W
- SDIO 4 bit Interface
- PCM for Bluetooth Audio
- UART and I2C Interfaces
- <800uA WiFi connected idle

Physical
- 42.5mm x 22.3mm x 1.2mm QSFP+ form factor
- <800uA Idle connected WiFi
- -20°C to +70°C Operation
- 1.8v Main Power Supply and I/O
- 3.3v Tolerant Inputs
- RoHS Compliant
- FCC/IC/ETSI/CE/TELEC Certified

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