

# "Mirage" WiFi + BT 2.1 + BT 4.1 + NFC Radio Module

Low Cost IoT Expander card for Sierra Wireless mangOH

## 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           | • Audio/Video Streaming |
| • Medical                  | • Smart Gateway         |
| • Appliances / White Goods | • Lighting Control      |
| • Industrial Automation    | • 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
- USB Interface
- 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 QSPF+ 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

For more information please contact:  
Email: [sales@taloncom.com](mailto:sales@taloncom.com)  
Direct: (619) 583-1846