

### Description



- **19.8 x 16.8 x 2.3 mm**
- **2.5GHz-2.7GHz**
- **1x2 MIMO**
- **Host interface: SDIO, USB**
- **OS Supported: Window CE 6, Windows Mobile 6.1, Linux 2.6**
- **Optimized for Mobile, VoIP, Gaming**

The WM9508 module is the second member from the SyMAX™ product family after WM9503.

Integrated within the WM9508 module are a host of active and passive components resulting in a single simple package for the customer. On module components include the Baseband/MAC IC, Radio Frequency (RF) transceiver, Power Amplifier (PA), EEPROM, and DDR-SDRAM. – fdsa

Along with the module, SyChip provides the drivers, supplicant, application APIs, as well as network manager and connection manager applications that allow original equipment manufacturers (OEM) the flexibility to integrate and optimize their respective applications (VoIP, Video/Audio streaming).

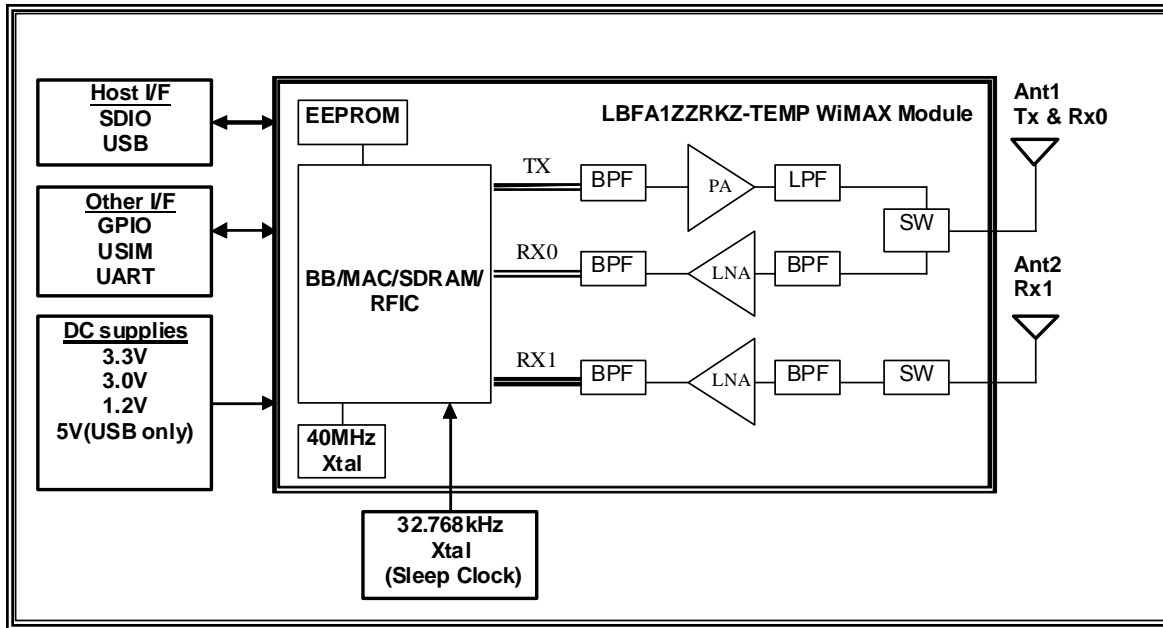
This module is targeted to consumer electronics (Handsets, Ultra Mobile Personal Computers, Personal Media Players, Portable Gaming Console and navigational devices) where high integration and fast design cycles are highly valued.

The module integrates the latest silicon technology for mobile client WiMAX offering the best feature set while minimizing space and power consumption.

The module comes in a Quad Flat No Lead (QFN) package and allows direct attachment to the main Printed Circuit Board utilizing industry standard interface mount technology processing for high volume production.

### Features

- Standards Conformance: IEEE 802.16e
- Size: 19.8 x 16.8 x 2.3 mm
- Frequency Range: 2.5 - 2.7GHz
- Channel Band Width: 10MHz, 8.75MHz, 7Mhz and 5MHz
- RF Power: +23dBm (Class 2)
- Transceiver: 1x2 MIMO
- Receiver Sensitivity: ≤ -85.3dBm @16QAM-3/4
- Host interface: SDIO, USB
- Internal Memory: 16MB SDRAM, EEPROM (4KB)
- Internal reference clocks: 40MHz (TCXO Oscillator)
- Internal sleep clock
- External DC Supplies: 3.3v, 3.0v, 1.2v, 5v(USB only)
- Antenna Interface: PCB Pad
- Package: 74-pin QFN
- ROHS compliant
- Operating Temperature: -20 to 80 C
- OS Supported: Window CE 6, Windows Mobile 6.1, Linux 2.6
- Optimized for Mobile, VoIP, Gaming
- ES Q1/2010



**WM9508 Module Block Diagram**

## Benefits

- Small size and low power consumption
- Fast hardware design cycle to fit demanding schedules
- Minimized software adaptation effort