



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



WLS1271L Wireless Module Product Brief



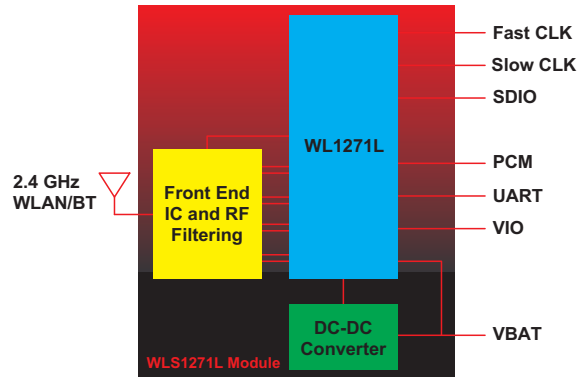
The WLS1271L provides 2.4 GHz WLAN plus Bluetooth functionality in an ultra-small module. The WLS1271L is based on TI's WL1271L SOC. The module features optimized RF performance including a high-efficiency RF front end circuit. An integrated DC-DC converter allows the module to operate from a single input voltage. The module is designed to fit into small spaces, and requires a minimum of external components to operate. Software drivers are available for Linux, Android and WinCE operating systems.

Features

- IEEE 802.11b/g + IEEE 802.11n WLAN MAC base-band processor
- IEEE 802.11n single stream data rates (MCSO-7) and SGI support
- Single-ended digital radio processor (DRP) RF implementation with internal LNA
- SDIO WLAN host interface
- Cisco Client eXtension (CCX) support
- Bluetooth Version 4.0 including 2 and 3 Mbps enhanced data rates
- High Rate 4-wire UART HCI (H4) and 3-wire UART HCI (H5)
- Lower Bluetooth layers up to HCI included
- Optimized for low current consumption in all operating modes
- Extremely low current sleep mode
- Flexible reference clock input - 19.2, 26, 38.4 or 52 MHz reference clock
- Integrated DC-to-DC converter provides single supply operation
- Package dimensions: 9 x 11 x 1.4 mm maximum

WLAN Specifications

- IEEE 802.11a/b/g/n compliant
- Operating Frequency Range: 2.412 to 2.472 GHz
- Data Rates
 - 802.11b: 11, 5.5, 2, 1 Mbps
 - 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
 - 802.11n: 65, 58.5, 52, 39, 26, 19.5, 13, 6.5 Mbps
- Transmit Power: +18 dBm
- Receive Sensitivity
 - 802.11b, 11 Mbps: -87 dBm
 - 802.11g, 54 Mbps: -74 dBm
 - 802.11n, 65 Mbps: -70 dBm
- Supply Current
 - Transmit: 250 mA
 - Receive: 100 mA



Bluetooth Specifications

- V4.0 + RDR, Power Class 1.5 + BLE
- Operating Frequency Range: 2.4000 to 2.4835 GHz
- Data Rates: 1, 2, 3 Mbps
- Transmit Power: +8 dBm
- Receive Sensitivity, 1 Mbps: -90 dBm
- Transmit/Receive Supply Current: 35 mA (DH1)

Security

- Hardware-based encryption/decryption for 64-, 128- and 256-bit WEP, TKIP and AES keys
- IEEE 802.11 d/e/h/i/k/r/s PICS compliant
- WEP, TKIP, WPA & WPA2, AES/CCMP per 802.11i

Standard Host Processors/Operating Systems with Driver Support

- OMAP 3, OMAP 4, AM 18x, AM 37x
- Linux 2.6
- Android
- WinCE

Environmental

- Supply Voltage: 3.0 to 4.2 Vdc
- Operating Temperature Range: -40 to +85 °C
- RH: 5 to 95% non-condensing
- RoHS Compliant

Interfaces

- WLAN: SDIO
- BT: UART

WLS1271L Wireless Module Product Brief



Ordering Information

- Evaluation Kit: DR-WLS1271L-EV
- Module: WLS1271L



Evaluation Kit