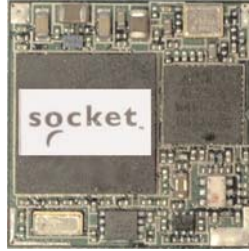


Embed WLAN Technology into Your Device

The Go Wi-Fi! 802.11b/g Module and development kit series offers OEM device manufacturers the ability to integrate powerful enterprise-class WLAN features into their products including CCX 4.0 compliance with the flexibility of selecting from multiple interfaces. The Module series is based on the Mediatek MT5911 chipset, which is a RoHS-compliant 72-pin LGA with an embedded antenna. It consumes the lowest amount of power in the industry, providing full-shift operation.



The Complete WLAN Module Solution

The module is 802.11b/g compliant, making it backwards-compatible with 802.11b wireless equipment and providing maximum interoperability within a mixed node 802.11b + g network. 802.11g compliancy offers increased data throughput—up to 54 Mbps within the 2.4 GHz band—while the automatic PowerSave mode balances battery life with throughput speed.

The Go Wi-Fi! Module provides enhanced Enterprise Class roaming algorithms which support seamless connections between multiple access points. It works with a variety of WLAN security protocols including Open systems, 40/64-bit and 128-bit WEP encryption, and networks with enhanced security such as AES TKIP, AES-CCMP, WPA2-Enterprise, WPA, WPA-PSK, 802.1x and EAP authentication processes including LEAP, EAP-TLS, EAP-TTLS, EAP-FAST, PEAP 0 (PEAP-MSCHAP) and PEAP 1 (PEAP-GTC).

Best in Class Features

- *Fast roaming*: less than **200ms** roaming enables an uninterrupted voice and data connection between multiple access points
- *Supports multiple interfaces*: CompactFlash and SDIO (planned support for SPI, HPI and EHPI); flexibility in design consideration and broader market coverage
- *Enterprise class security*: meets industry standards for enterprise security
- *PowerSave mode*: extends battery life for 8-10 hour shift operation
- *Bluetooth-WLAN co-existence ready*
- *Small size*: compact footprint means more features in single device

FEATURES

- Enterprise Class Roaming: **FAST - less than 200 ms!** Enhanced roaming algorithms support seamless connections between access points
- Supports 802.1x, WPA-2 and AES Enterprise-level security that fully protects data privacy
- Consumes lowest amount of power in the industry and provides full-shift operation
- SDIO and CompactFlash interfaces; planned SPI, HPI and EHPI
- Compatible with devices with:
 - Windows Mobile 2003/2003SE/5.0 or Windows CE 4.2/5.0*
 - ARMv4, ARMv4I, MIPSII, MIPSIV, SH-4 or X86 processor
- SDK supports third party application developers to rapidly create and integrate Wi-Fi, even for non-standard operating systems
- RoHS- and WEEE-compliant

DEVELOPER'S KIT CONTENTS

- Go Wi-Fi! module dev board with antenna (module pre-installed)
- Software:
 - Drivers
 - Software tools
 - Enhanced Wi-Fi® Companion™ application
- Documentation:
 - Overall architecture for MTK 5911, drivers, services and Wi-Fi Companion
 - Module datasheet
 - Module specification
- Supported function calls and register settings (e.g., MTK5911 DDK) are available separately from Socket Developer Services

*For information about MontaVista Linux and Real-Time Operating Systems support, inquire online: www.socketmobile.com/contact/note_contact.asp?EmaillID=4&Status=Sales&Product=WiFi

Go Wi-Fi! WLAN Module

P700 Series

SPECIFICATIONS	
Module Dimensions	16.3 x 16.3 x 1.9 mm (max.)
Form Factor	72-pin LGA Type
Power Consumption (3.3 V Supply)	Idle: <20 mA Transmission: 265 mA (peak)
Transmit Power	CCK: 16.5 dBm typical OFDM: 14.5 dBm typical
Indoor Range	~ 300 ft (typical office environment)
Operating Temperature	0 to +70°C (+32 to +158° F)
Storage Temperature	-20 to +85°C (+5 to +185°F)
Access Protocol	Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)
Hardware Support	Development board supports SDIO or CF interface
Drivers/Software Available	- Drivers for Windows Mobile 2003, 2003SE or 5.0 - Drivers for Windows CE 4.2 or 5.0 supporting these processors: ARMv4, ARMv4I, MIPSII, MIPSIV, SH-4 and X86 - Enhanced Wi-Fi® Companion™ software
Standards Conformance	Cisco Certified Extensions (CCX) 4.0* Wi-Fi Certified - Enterprise Edition* Meets 802.1x requirements WPA2- Enterprise IEEE 802.11b and 802.11g CompactFlash Spec 2.0 or Secure Digital I/O
Data Rate for 802.11g	Dynamically shifts between 54, 48, 36, 24, 18, 12, 9 and 6 Mbps.** OFDM with BPSK, QPSK, 16-QAM and 54-QAM (at 6/9, 12/18, 24/36, and 48/54 Mbps, respectively)
Data Rate for 802.11b	Dynamically shifts between 11, 5.5, 2 and 1 Mbps.** DSSS with BPSK, QPSK, and CCK (at 1, 2 and 5.5/11 Mbps, respectively)
Frequency Range and Operating Channels	North America: 2.412-2.462 GHz, channels 1-11 Europe: 2.412-2.472 GHz, channels 1-13 Japan: 2.412-2.484 GHz, channels 1-14
Certification/Compliance	Customers must submit their own FCC or other agency application
Part Numbers	Go Wi-Fi! P701 CF module - North America: 8520-00110 Go Wi-Fi! P702 CF module - International: 8520-000111 Go Wi-Fi! P703 SDIO module - North America: 8520-00112 Go Wi-Fi! P704 SDIO module - International: 8520-00113 WLAN SDK: WL6229-735

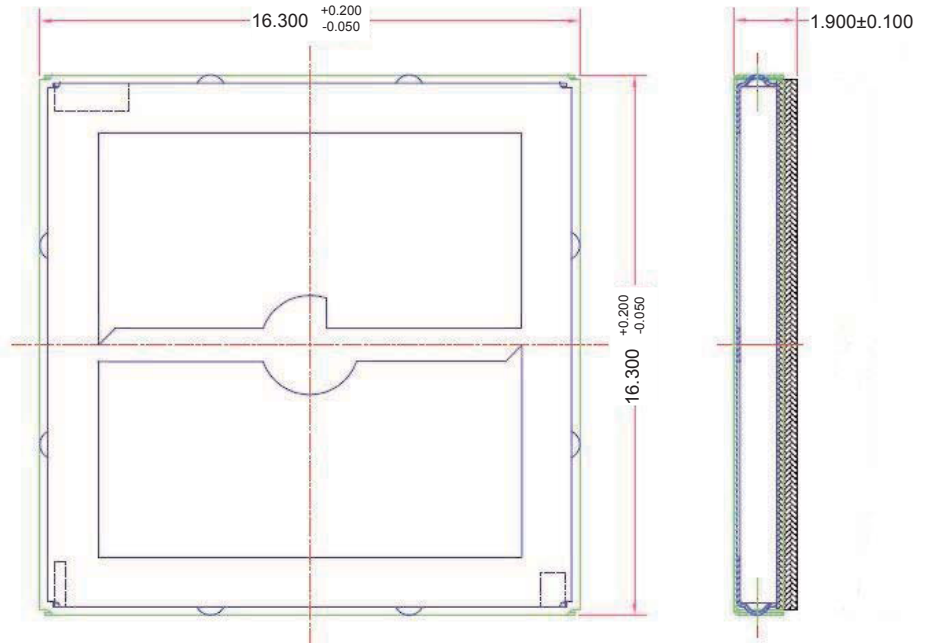
*CCX and Wi-Fi Certification with Enhanced Wi-Fi Companion software

** Based on signal strength for maximum reliability of connection

Go Wi-Fi! WLAN Module

P700 Series

MODULE TOP AND SIDE VIEWS



Note: All measurements in millimeters (mm).

socket

Sales Offices
Corporate Headquarters:
39700 Eureka Drive
Newark, CA 94560 USA

Web: socketmobile.com

Phone: +1-510-933-3000

USA & Canada Toll Free: 800-552-3300

Fax: +1-510-933-3030

Online: socketmobile.com/contact



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