2.4 GHz WiFi® + Bluetooth® Certified Antenna Design on WiLink™ 1835 Module

(ACTIVE) TIDC-WL1835MODCOM8B

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Description

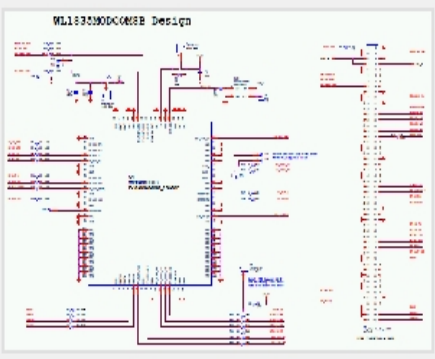
The WiLink 1835 Module Antenna Design is a reference design that combines the functionalities of the WiLink 8 module with a built-in antenna on a single board, implementing the module in the way it's been certified. Through this, customers are able to evaluate the performance of the module through embedded applications such as home automation and the Internet of Things that make use of both Wi-Fi and Bluetooth/Bluetooth Low Energy functionalities found on the WiLink 1835 module. This antenna design leverages the use of its certification by using the same antenna layout when the module was tested for certification, allowing customers to avoid repeated certification when creating their applications.

Features

- Integrated FCC, ETSI, and TELEC certified module
- Board implements module in the same antenna layout it was certified
- Allows for usage in applications without the need for recertification
- WLAN, Bluetooth 4.1, BLE single antenna co-existence on a single module board
- WLAN 2.4 GHz SISO (20- and 40- MHz channels) and 2.4 GHz MIMO (20-MHz channels) functionality
- This Board includes a built-in antenna with a pre-certified module and includes a user guide, plus the needed hardware and software to get started

Schematic/Block Diagram

Quickly understand overall system functionality.



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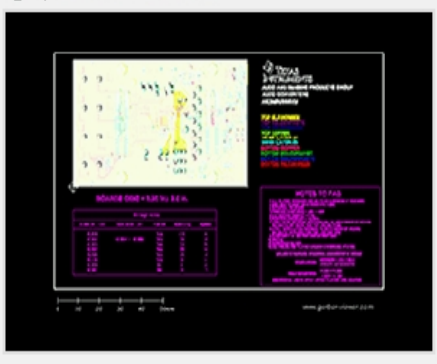

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

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Part Number	Buy from Texas Instruments or Third Party	Alert Me	Status
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TI Devices (6)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
WL1801MOD	TI WiLink 8 Single Band WiFi Module	Wireless Connectivity	Sample & Buy	View Design Kits & Evaluation Modules
WL1805MOD	WiLink 8 Single Band, 2x2 MIMO Wi-Fi Module	Wireless	Sample & Buy	View Design Kits & Evaluation

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
WL1835MODCOM8 WLAN MIMO/BT Module Board (Rev. C)		PDF	5436	23 Jan 2014	2,350

Design Files (5)

Title	Abstract	Type	Size (KB)	Date	Views
2.4 GHz WiFi+Bluetooth Certified Antenna Design on WiLink 1835 Module CAD Files		ZIP	49	14 Aug 2014	110
2.4 GHz WiFi+Bluetooth Certified Antenna Design on WiLink 1835 Module Layer Plot		ZIP	380	14 Aug 2014	93
2.4 GHz WiFi+Bluetooth Certified Antenna Design on WiLink 1835 Module Gerber		ZIP	134	14 Aug 2014	67
2.4 GHz WiFi+Bluetooth Certified Antenna Design on WiLink 1835 Module BOM		PDF	222	14 Aug 2014	101
2.4 GHz WiFi+Bluetooth Certified Antenna Design on WiLink 1835 Module Schematic		PDF	66	14 Aug 2014	253

Applications

- Internet Radio Player

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