

Worldwide (In English)

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The WiLink 1837 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 [embedded Wi-Fi](#) and [Bluetooth / Bluetooth low energy](#) functionalities found on the WiLink 1837 module. This antenna design leverages the use of its certification by using the same layout when the module was tested for certification, allowing customers to avoid repeated certification when creating their applications.



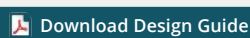
- Integrated FCC, ETSI, and TELEC certified module
- Board implements module in the same layout it was certified
- Allows for usage in applications without the need for recertification
- WLAN, Bluetooth 4.1, BLE single antenna co-existence on a single module board
- WLAN 2.4 & 5 GHz SISO (20- and 40- 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 HW and SW to get started

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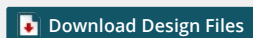
Quickly understand overall system functionality.



Get results faster with test and simulation data that's been verified.



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Find the complete list of components in this reference design.



Download BOM

Part Number	Buy from Texas Instruments or Third Party	Buy from Authorized Distributor	Status
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WL1837MODCOM8I-SDMMC: WL1837MODCOM8 and SDMMC adapter bundle	(USD) In Stock Typically Ships in 1 to 3 Business Days In Stock Typically Ships in 1 to 3 Business Days Buy from TI	Not Available	ACTIVE
WL1837MODCOM8I: WiLink™ 8 Dual Band 2.4 & 5 GHz Wi-Fi® + Bluetooth® COM8 Evaluation Module	(USD) Buy from TI	Pricing may vary. Buy from distributor	ACTIVE
Contact a Distributor - Select a location - Go			

TI Devices (1)

Order samples, get tools and find more information on the TI products in this reference design.

Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
WL1837MOD	WiLink™ 8 industrial dual band, 2x2 MIMO Wi-Fi®, Bluetooth® & Bluetooth Smart module	Wi-Fi	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package Pins	CAD File (.bxl)	STEP Model (.stp)
WL1837MOD	 QFM (MOC) 100	Download	Download

Texas Instruments and Accelerated Designs, Inc. have collaborated together to provide TI customers with schematic symbols and PCB layout footprints for TI products.

Step 1: Download and install the [free download](#).

Step 2: Download the Symbol and Footprint from the CAD.bxl file table.

- [read more](#) -

Technical Documents

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User guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
 WL1837MODCOM8I WLAN MIMO and BT Module EVB for TI Sitara Platform (Rev. A)		PDF	3528	29 Dec 2014	1,499

Design files (6)

Title	Abstract	Type	Size (KB)	Date	Views
WiLink 8 Dual Band 2.4 & 5 GHz Wi-Fi + Bluetooth COM8 EVM CAD Files (Rev. A)		ZIP	44	07 Mar 2016	335
WiLink 8 Dual Band 2.4 & 5 GHz Wi-Fi + Bluetooth COM8 EVM PCB .asc Layout		ZIP	311	21 Aug 2015	105
WiLink 8 Dual Band 2.4 & 5 GHz Wi-Fi + Bluetooth COM8 EVM PCB Layout		ZIP	461	03 Nov 2014	107
WiLink 8 Dual Band 2.4 & 5 GHz Wi-Fi + Bluetooth COM8 EVM Gerber Files		ZIP	218	03 Nov 2014	148
 WiLink 8 Dual Band 2.4 & 5 GHz Wi-Fi + Bluetooth COM8 EVM Schematic		PDF	70	03 Nov 2014	375
 WiLink 8 Dual Band 2.4 & 5 GHz Wi-Fi + Bluetooth COM8 EVM Bill of Materials		PDF	35	03 Nov 2014	139

Related Tools & Software

Design Kits & Evaluation Modules (1)

Name	Part Number	Tool Type
WiLink™ 8 Dual Band 2.4 & 5 GHz Wi-Fi® + Bluetooth® COM8 Evaluation Module	WL1837MODCOM8I	Daughter Cards

Software (2)

Name	Part Number	Software Type
Android Development Kit for Sitara Microprocessors	ANDROIDSDK-SITARA	Software Development Kits (SDK)
Linux EZ Software Development Kit (EZSDK) for Sitara™ Processors	LINUXEZSDK-SITARA	Software Development Kits (SDK)

Applications

- Defense Radios
- HVAC Gateway
- HVAC System Controller
- STB & DVR
- Streaming Media STB (OTT)
- Telehealth Gateway & Aggregation Manager