





Actual size (13 mm x 18 mm)

TiWi5[™]

802.11 a/b/g/n, Bluetooth®, Bluetooth® Smart, & ANT+ Ready Module

PRODUCT DESCRIPTION

The TiWi5[™] is a high-performance combo module providing Wi-Fi capabilities in both the 2.4 GHz and 5.8 GHz bands. This dual-band Wi-Fi[®] / Bluetooth[®] module supports single stream WLAN data rates to 65 Mbps and Bluetooth 2.1+EDR and Bluetooth 4.0 (BLE) in a cost effective, pre-certified footprint. Designed to realize the necessary PHY/MAC layers to support WLAN applications in conjunction with a host processor over a SDIO interface.

FEATURES AND BENEFITS

- Dual-band 2.4 GHz and 5.8 GHz operation
- Bluetooth® Smart-Ready (Bluetooth 2.1+EDR, Bluetooth Low Energy 4.0) and ANT+ capable
- Small footprint: 13 mm x 18 mm x 1.9 mm
- Industrial operating temperature: -40° to +85°C
- FCC (USA), IC (Canada) and ETSI (Europe) Module Certification
- On-module TCXO, band-pass filter, and power regulation
- Open source Linux drivers available for Wi-Fi

Practical Applications:

Hospitals and 'high traffic' environments. Medical, Security, HVAC Control, Telematics, and Gateway Design.



TIWI5 MODULE PERFORMANCE

| SPECIFICATION | VALUE |
|------------------------|---|
| Footprint | 13 mm x 18 mm x 1.9 mm |
| Operating Temp | -40 to +85° C |
| Operating Voltage | 3.0 V to 4.8 V |
| WLAN Transmit Power | +18.3 dBm, 11 Mbps, CCK (b) +14.4 dBm, 54 Mbps, OFDM (g) +12.5 dBm, 65 Mbps, OFDM (n) |
| WLAN Sensitivity | -88 dBm, 8% PER, 11 Mbps -74 dBm, 10% PER, 54 Mbps -72 dBm, 10% PER, 65 Mbps |

For full specifications on TiWi5, please refer to datasheet.

| TECHNICAL DETAILS | |
|-------------------|--|
|-------------------|--|

802.11 a/b/g/n compliant

Bluetooth 2.1+EDR, Power Class 1.5 Compliant

Full support for BLE 4.0 and ANT+

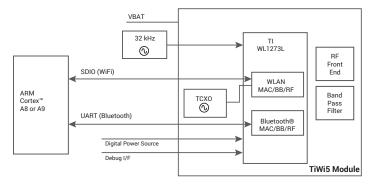
KEY FEATURES

- Linux drivers available and supported
- Terminal for PCB/Chip antenna feeds
- Industrial-rated operating temperature

ORDER INFORMATION

| PART NUMBER | DESCRIPTION |
|-------------|---------------------------------------|
| 450-0053 | TiWi5 Module |
| 450-0085 | COM6L-T5 TiWi5 Adapter Card with U.FL |
| 450-0109 | COM6L to BeagleBoard Adapter |

These LSR products are all REACH and EU ROHS compliant.



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- Software/Firmware Design
- Antenna Design
- Industrial Design
- Mechanical Engineering



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- EMC Testing
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Wireless Products

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- Bluetooth[®]
- Bluetooth[®] Smart
- ZigBee[®]
- 802.15.4 & proprietary protocols