



Actual size (10.5 mm x 10.5 mm)

TiWi-C-W™

2.4 GHz Embedded Wi-Fi Module

This stand-alone WLAN (IEEE 802.11 b/g/n) module with application processor simplifies and accelerates the work of adding Wi-Fi connectivity to your products. The TiWi-C-W module's breadth of capabilities ensures a straight-forward integration with your product design.

- Features 2 operating modes:
 Hostless operation with on-board ARM Cortex-M3 application processor
 Hosted operation via UART interface with either
- Serial-to-WiFi™ or TiWiConnect™ cloud agent firmware
- Fully Integrated TCP/IP stack
- Small footprint: 10.5 mm x 10.5 mm x 1.35 mm
- Supports true Antenna Diversity
- FCC (USA), IC (Canada) and ETSI (Europe) Module Certification
- Both 2 layer and 4 layer reference designs available
- Multiple 2.4 GHz antenna options: SMT Chip, Dipole, FlexPIFA™, & FlexPIFA™
- Additional customer specific antennas can be added to certification for little or no cost





Practical Applications:

- M2M Connectivity / Internet of Things
- Remote diagnostics & monitoring
- Remote interactivity & control



TIWI-C-W MODULE PERFORMANCE

SPECIFICATION	VALUE
Footprint	10.5 mm x 10.5 mm x 1.35 mm
Operating Temp	-40 to +85° C
Operating Voltage	3.13 V to 3.46 V
WLAN Transmit Power	+17 dBm, 1 Mbps, CCK (b) +13 dBm, 54 Mbps, OFDM (g) +11 dBm, HT20 MCS7 (n)
WLAN Sensitivity	-87 dBm, 8% PER, 11 Mbps (b) -70 dBm, 10% PER, 54 Mbps (g) -70 dBm, 10% PER, MCS7 (n)

For full specifications on TiWi-C-W, please refer to datasheet.

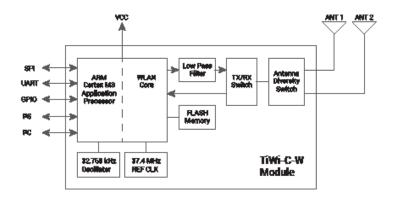
TECHNICAL DETAILS	
IEEE 802.11 b/g/n Compliant	
Integrated ARM Cortex-M3 application processor	
Wireless Security WEP, WPA Personal, and WPA2 Personal	

KEY FEATURES	
Host or hostless mode operations	
Embedded TCP/IP Stack	
FCC / IC / CE Certification	

ORDER INFORMATION

PART NUMBER	DESCRIPTION
450-0118C	TiWi-C-W Module
450-0118R	TiWi-C-W Module, TR
450-0143	TiWi-C-W Development Kit featuring TiWiConnect™
450-0164	TiWi-C-W Development Kit featuring Serial-to-WiFi™

These LSR products are all REACH and EU ROHS compliant.



LSR is the leader in Wireless Product Development, offering true end-to-end solutions through its array of services and technical expertise.



Design Services

LSR delivers complete system solutions from concept to manufacturing. We are your wireless M2M solutions partner, providing complete turnkey services and solutions.

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



EMC Testing & Certification

At LSR, we understand it is critical for your company to have a compliant product supported by the appropriate documentation, ready for deployment into the market. LSR provides the experience and knowledge to provide quality test services that meet your timeline and budget.

- On-Site FCC / IC /CE EMC Certification
- Wireless & Antenna Testing
- EMC Testing
- International Testing Services



Wireless Products

LSR offers the fastest, lowest cost way to add wireless capabilities to your product concept. LSR's fully-certified modules and antennas accelerate your time-to-market and support the full breadth of communication technologies, including:

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