

WIRELESS MODULES

4x4 802.11b/g/n Mini PCIe WiFi Module

Standard size form factor



KEY FEATURES

- Qualcomm Atheros 'Cascade' QCA9984
- Heat sink allows free air operation
- IEEE 802.11b/g/n compliant, up to 800Mbps
- Mini PCI Express 2.0 interface
- Supports Spatial Multiplexing Maximal Ratio Combining (MRC), Space Time Block Code (STBC)
- Supports IEEE 802.11d, e, h, i, j, k, r, u, v time stamp, w , and z standards
- Designed for High Bandwidth Enterprise Wireless Access Points

Specifications

Chipset	QCA9984	
System Memory	256Kbit serial I ² C bus EEPROM	
Host Interface	Mini PCI Express 2.0 Standard	
Operating Voltage	3.3V	
Antenna Connector	4x U.FL	
Frequency Range	2.412 ~ 2.462 GHz	
Power Consumption	6.68W (Max)	
Supported Operating System	CompexWRT or OpenWRT/LEDE	
Modulation Techniques	CCK, OFDM: BPSK, QPSK, 16-QAM, 64-QAM	
Temperature Range	Operating: -20°C to 70°C Storage: -40°C to 90°C	
Humidity	Operating: 5% to 95% (non-condensing) Storage: Max. 90% (non-condensing)	
ESD Sensitivity	Class 1B	

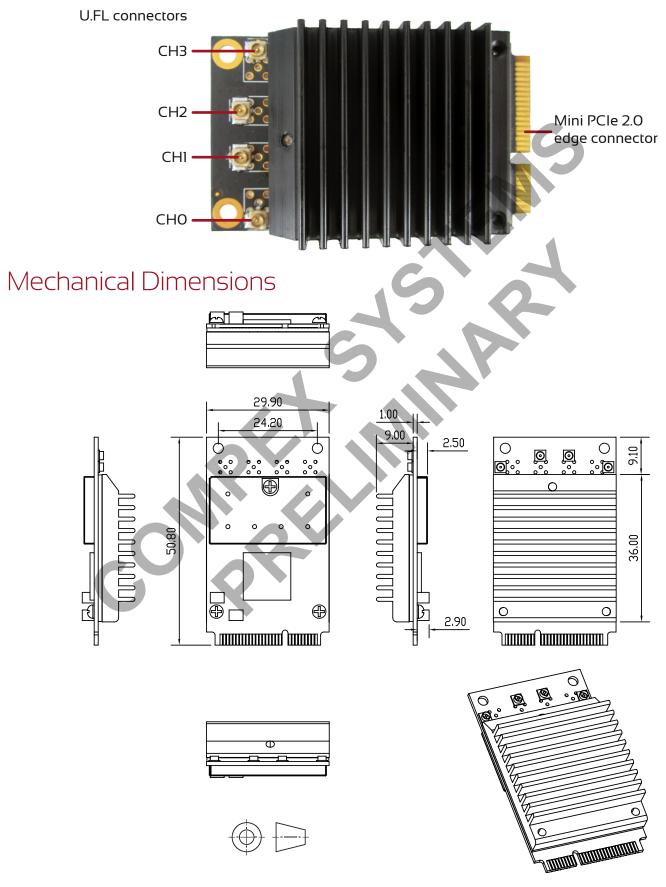
Dimensions (W x H x D)

29.9 x 50.8 x 12.9 mm



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Feature Guide

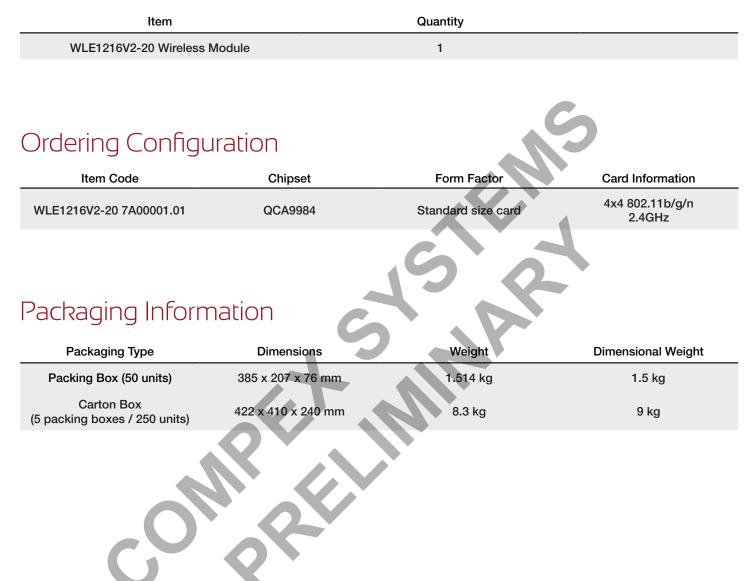


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Packaging Content





Compliance Information

FCC 15.105

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

FCC 15.19

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

FCC 15.21

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC 15.203

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

RF exposure warning

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

OEM Integration Instructions:

This device is intended only for OEM integrators under the following conditions: The module is only limited to installation in mobile applications. The antenna must be installed such that 20 cm is maintained between the antenna and users, and the transmitter module may not be co-located with any other transmit or antenna. The module shall be only used with the integral antenna(s) that has been originally tested and certified with this module.

As long as 3 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirement with this module installed (for example, digital device emission, PC peripheral requirements, etc.)

IMPORTANT NOTE:

In the event that these conditions cannot be met (for example certain laptop configuration or co-location with another transmitter), then the FCC authorization for this module in combination with the host equipment is no longer considered valid and the FCC ID of the module cannot be used on the final product. In these and circumstance, the OEM integrator will be responsible for re-evaluating. The end product (including the transmitter) and obtaining a separate FCC authorization

The final end product must be labeled in a visible area with the following: "Contains Transmitter Module FCC ID: TK4WLE1216V220 or Contains FCC ID: TK4WLE1216V220"

The module will be restricted on these host (Detail information show as below) Manufacturer: Compex Systems Pte Ltd Product name: Client Terminal Product Model Number: WPJXXX

Antenna Type	Frequency Band (GHz)	TX Paths	Max Peak Gain (dBi)
Dipole Antenna	2.4	4	5
Panel Antenna	2.4	4	11

Note: The device didn't support beam-forming technology and Cyclic Delay Diversity (CDD) technology, and the transmit signals are uncorrected, so no add array gain to the band power and band PSD.