



**EVM-915-250**

**Data Guide**  
**(Preliminary)**

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## Ordering Information

Ordering Information		
Product Part No.	Description	Radiotronix Part No.
EVM-915-250-FCR	TRM-915-R250 Evaluation Module, Right Angle RP-SMA Connector, FCC Approved	Wi.232FHSS-250-FCC-RA-R
EVM-915-250-FCS	TRM-915-R250 Evaluation Module, Straight RP-SMA Connector, FCC Approved	Wi.232FHSS-250-FCC-ST-R
EVM-915-250-BZR	TRM-915-R250 Evaluation Module, Right Angle RP-SMA Connector, Brazil Anatel Approved	Wi.232FHSS-250B-RA-R
EVM-915-250-BZS	TRM-915-R250 Evaluation Module, Straight RP-SMA Connector, Brazil Anatel Approved	Wi.232FHSS-250B-ST-R
EVM-915-250-CFR	TRM-915-R250 Evaluation Module, Right Angle SP-SMA Connector, Mexico CoFeTel Approved	Wi.232FHSS-250-FCC-CFTC-RA-R
EVM-915-250-CFS	TRM-915-R250 Evaluation Module, Straight RP-SMA Connector, Mexico CoFeTel Approved	Wi.232FHSS-250-FCC-CFTC-ST-R

Figure 2: Ordering Information

## Electrical Specifications

Electrical Specifications						
Parameter	Designation	Min.	Typ.	Max.	Units	Notes
Power Supply						
Operating Voltage	$V_{CC}$	4		12	VDC	
Supply Current	$I_{CC}$					
Receive				25	mA	
Transmit, $P_o = 8\text{dBm}$				60	mA	
Transmit, $P_o = 23.5\text{dBm}$				200	mA	
Digital Interface						
Output						
Logic Low	$V_{OL}$	0		0.4	VDC	
Logic High	$V_{OH}$	2.5		$V_{CC}$	VDC	

# Pin Assignments

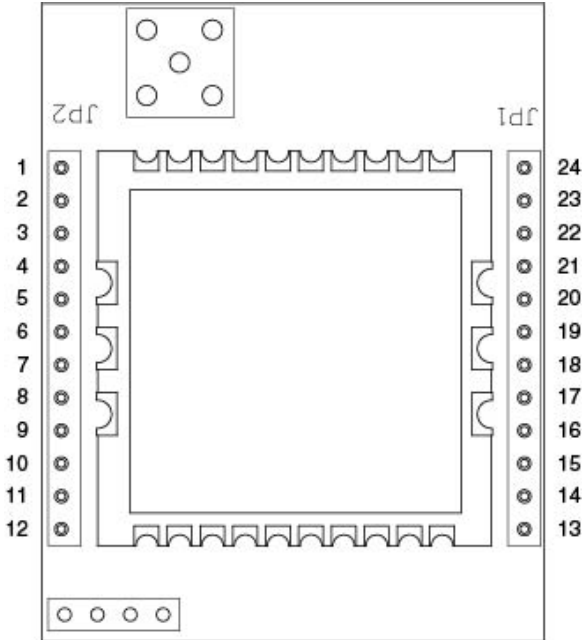


Figure 3: Pin Assignments

# PCB Footprint

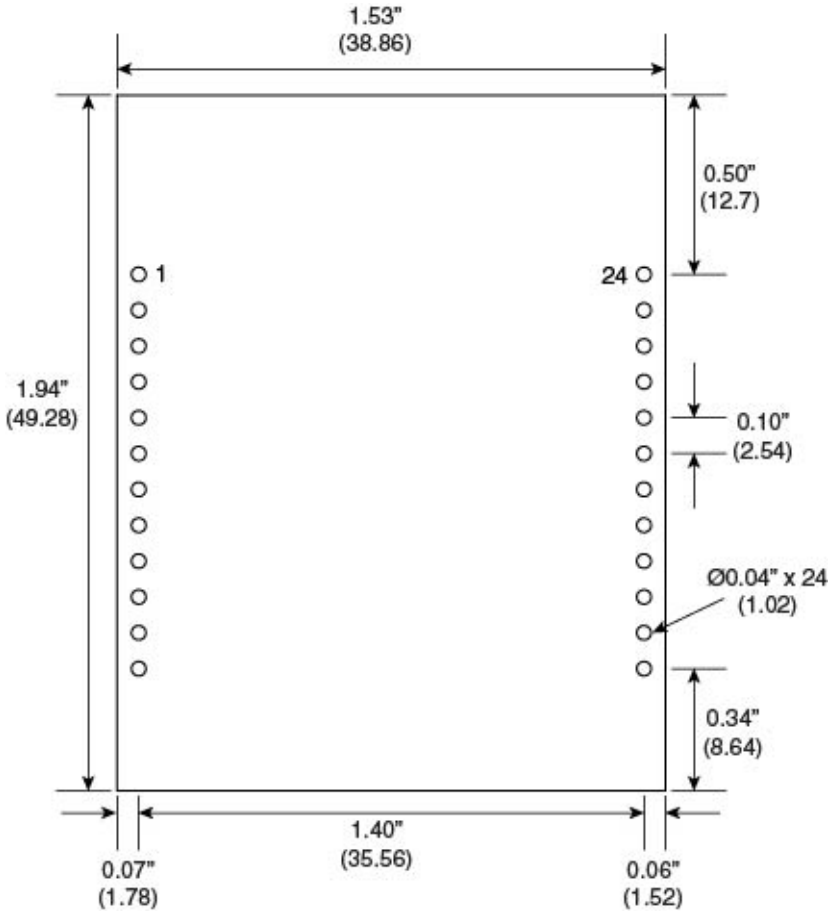


Figure 5: PCB Footprint

## Usage Guidelines for FCC Compliance

The EVM-915-250-FCx modules have been awarded a FCC and IC modular approval. The EVM-915-250-BZx have passed Anatel compliance testing. That means that this module, when integrated into your end product, requires no FCC part 15 or IC RSS-210 testing as long as the following guidelines are met. Failure to meet any of the following guidelines will prevent the inheritance of the FCC and IC modular certifications.

### Antenna Selection

In order to maintain compliance with FCC, Industry Canada and Anatel regulations, an antenna with no more than 3dBi gain must be used. This module has been tested with the following antennas:

Antenna Selection		
Link Part No.	Antenna Type	Antenna gain
ANT-916-CW-HW	RP ½ Wave Dipole	2.5dBi

Figure 7: Antenna Selection

An approved antenna must be directly attached to the module's reverse-polarity SMA connector or through an approved shielded coaxial extension cable in the final application to inherit the FCC and IC modular certifications.

### Module Modification

The module must not be physically altered in any way. If any connections are made to the modules that bypass the module pins, socket or antenna connector, the certifications cannot be inherited.

### End Product labeling Requirements

Pursuant to FCC public notice DA 00-1407, the end product must be labeled on its exterior with the following:

“Contains FCC ID: Q7V-3F090009X”

## FCC Statements of Modular Compliance

FCC / IC NOTICE (FCC ID: Q7V-3F090009X / IC: 5589A-3F090009)

This device complies with the rules set forth in Part 15 by the Federal Communications Commission and RSS-210/RSS-Gen by Industry Canada. Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by Linx Technologies could void the user's authority to operate the equipment.

The EVM-915-250-FCx module is provided with an inheritable FCC Modular Certification. This certification may be inherited in an end-user product, negating the need for FCC part 15 and IC RSS-210 intentional radiator testing on this module, provided that the following guidelines are met:

1. An approved antenna must be directly coupled to the module's RP-SMA connector or through an approved coaxial extension cable.
2. The module must not be modified in any way. Coupling of external circuitry must not bypass the provided connectors.
3. End product must be externally labeled with "Contains FCC ID: Q7V-3F090009X / IC: 5589A-3F090009"
4. The end product's user's manual must contain an FCC statement equivalent to that listed on page 8 of this manual.
5. The antenna used for this transceiver must not be co-located or operating in conjunction with any other antenna or transmitter.
6. The integrator must not provide any information to the end-user on how to install or remove the module from the end-product.

The integrator is required to perform unintentional radiator testing on the final product per FCC sections 15.107 and 15.109.

FCC/IC Pre-certified EVM-915-250

FCC ID: Q7V-3F090009X

IC: 5589A-3F090009





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