

TR module user manual(Z-wave)

Model Name :	TR MODULE
Model Number :	TR003
FCC ID:	FU5TR003

Absolute Maximum Ratings

Parameter	Min.	Typ.	Max.	Unit	Condition
Operating supply voltage	2.1	3.3	3.5	V	
Operating temperature	-20	--	+50	°C	
Operating supply humidity	--	--	85	%RH	
Storage Temperature Range	-20	25	+60	°C	

Electrical Specifications

Tc=25 °C if nothing else stated

Ref. item	Parameter	Min.	Typ.	Max.	Unit	Condition
1	Standby current	--	1.8	6	uA	Sleep mode
923MHz @ Transmit mode						
12	Current consumption	--	23	30	mA	
13	Frequency range	908.40	908.42	908.44	MHz	
14	Output power	-11	-8	-5	dBm	
15	Harmonic	--	--	-60	dBm	
923MHz @ Receive mode						
16	Current consumption	--	22	28	mA	
17	Receiver sensitivity	--	-105	-98	dBm	
18	Receive bandwidth	--	170	210	kHz	@-3dB
19		--	330	370		@-30dB

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

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.

CAUTION:

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

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.

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Information for the OEMs and Integrators

The following statement must be included with all versions of this document supplied to an OEM or integrator, but should not be distributed to the end user.

This device is intended for OEM integrators only.

Please See the full Grant of Equipment document for other restrictions.

Label Information to the End User by the OEM or Integrator

The following regulatory and safety notices, the final end product must be labeled with "Contains FCC ID: FU5TR003 in a visible area.