



Cub MWR77 77GHz TA BSD Radar Module User Manual

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General Specification

Item	Parameters	Value
1	Operation voltage	9 — 36 V
2	Operation frequency	76-77 GHz
3	Occupied Bandwidth	400 MHz

4	EIRP		27dBm
5	ADC sampling rate		20 MSPS
6	MCU RAM SIZE		768 kB
7	MCU flash size		1 MB
9	Power consumption		< 220mA @ 13.5V < 110mA @ 27V
10	Update rate (Frame rate)		20Hz
11	Detection range	longitudinal	0.5-80m
		Lateral	0.5-45m
12	Detection range	Accuracy	+0.25m~-0.25m
		Resolution	1.5m
13	Velocity range	longitudinal	±50m/s
		Lateral	±20m/s
14	Velocity range	Accuracy	±0.175m/s
		Resolution	1 m/s

REGULATORY STATEMENTS

FCC Statement

Federal Communication 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 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 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 Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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.

This device and its antenna(s) must not be co-located with any other transmitters except in accordance with FCC multi-transmitter product procedures. Referring to the multi-transmitter policy, multiple-transmitter(s) and module(s) can be operated simultaneously without C2PC.

IMPORTANT NOTE

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

IMPORTANT NOTE

This module is intended for OEM integrator only and limited to host with brand: Cub and model: B122-009NA1-A2, B122-009NA1-A3, B122-010NA1-A2, B122-010NA1-A3. This module is only FCC authorized for the specific rule parts listed on the grant, and that the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

USERS MANUAL OF THE END PRODUCT

In the users manual of the end product, the end user has to be informed to keep at least 20cm separation with the antenna while this end product is installed and operated. The end user has to be informed that the FCC radio-frequency exposure guidelines for an uncontrolled environment can be satisfied.

The end user has to also be informed that any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

The FCC part 15.19 statement below has to also be available in the manual: This device complies with Part 15 of 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.


LABEL OF THE END PRODUCT

The final end product must be labeled in a visible area with the following ” Contains TX FCC ID:
ZPNUNIVERSALTABSD

Ant. list

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Remark
1	Cub	CUBT76500	array	N/A	11.71	TX
2					13.9	RX

Documents / Resources

 <small>USER MANUAL 77GHz TA BSD Radar Module Model Name: MWR77</small>	Cub MWR77 77GHz TA BSD Radar Module [pdf] User Manual UNIVERSALTABSD, ZPNUNIVERSALTABSD, MWR77 77GHz TA BSD Radar Module, MWR77 , 77GHz TA BSD Radar Module
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