



AR6335 2.4GHz DSMX Receiver User Manual.

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1. Features

- 2.4GHz Direct Sequence Spread Spectrum (DSSS) radio transceiver module.
- Operates in the unlicensed worldwide ISM band (2.4 GHz to 2.483.5GHz) band
- Fully integrated power regulation with a wide input unregulated operating range 3V to 12V.
- Fully integrated local oscillator and 12MHz 20ppm reference crystal
- 50mA operating current
- Transmit power 2.5mW EIRP
- Receive sensitivity up to -95dBm
- DSSS data rates up to 250kbps
- 1 mile operating range
- Full packet assembling and disassembling
- Auto transaction sequencer
- Fully buffered digital interface with high voltage tolerant inputs

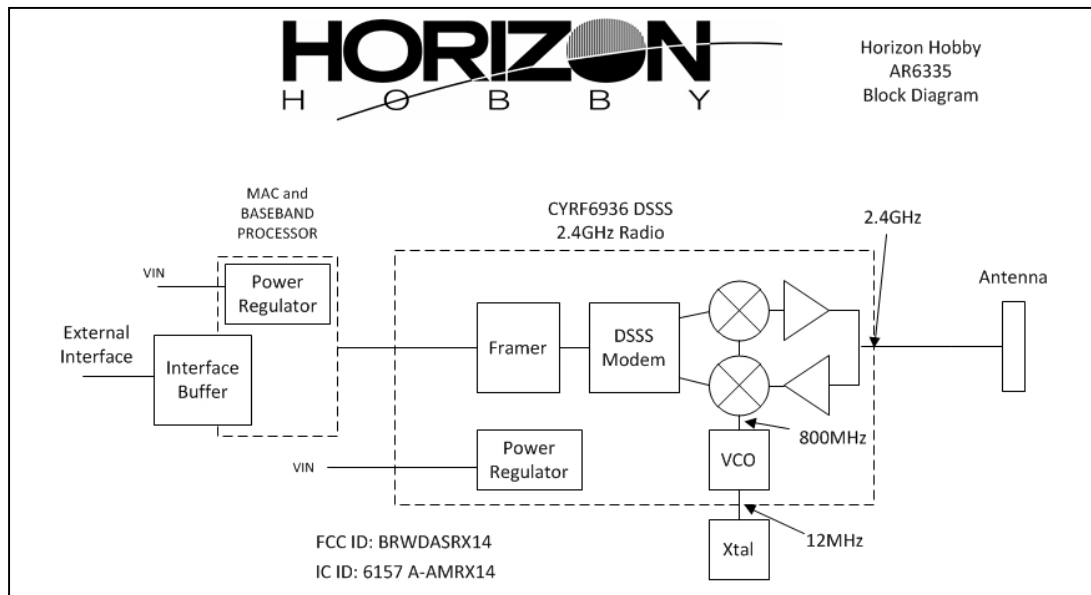
2. Pin description

Pin Number	Name	Description
J1-J7, Pin 1	VRAW	DC Incoming Power
J1-J7, Pin 2	Ground	Ground
J1-3	BIND	Bind
J2-3	Channel 1	PWM Data for Channel 1
J3-3	Channel 2	PWM Data for Channel 2
J4-3	Channel 3	PWM Data for Channel 3
J5-3	Channel 4	PWM Data for Channel 4
J6-3	Channel 5	PWM Data for Channel 5
J7-3	Channel 6	PWM Data for Channel 6

3. Specifications

Parameter	Value	Units
Storage Temp	-65 to 105	Degrees Celsius
VDD	3.0 to 12.0	Volts
Receive Sensitivity	-95	dBm
Transmit power (radiated)	4	dBm MAX
Idle current	1	mA
Receive current	22	mA
Transmit current	50	mA

4. Block Diagram



5. FCC Statement:

This equipment has been tested and found to comply with the limits for 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 to an outlet on a circuit different from that to which the receiver is connected.

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.

Note: Modifications to this product will void the user's authority to operate this equipment.

6. IC Statement:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device."

IC Déclaration:

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Remarque: Toute modification de ce produit annule l'autorité de l'utilisateur à utiliser cet équipement.