

Attwood Corporation

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MotorGuide Xi5 Key FOB Operational Description

This device is an operator interface to the Xi5 electric trolling motor designed for low speed maneuvering, aimed mainly at the fishing market. Power for the unit is provided by 1 replaceable 1.5vdc AAA battery. A 500kHz boost regulator brings the battery voltage up to the 3.3Vdc needed by the board to operate.

The transmitter uses a GFSK transceiver designed for operation in the 2.45GHz frequency band. When a button is pressed, the module records the logic states of the buttons and creates a Command Byte. It then retrieves its Address from memory, assembles a packet and transmits the data. The transmitter sends the packet once on each of three frequencies. It then checks to see if the button is still pressed and if so it repeats the cycle. A 30 second timeout is employed to stop transmission if the button states have not changed.

The three channels are selected to avoid interference from Wi-Fi signals. They are shown in the table below.

Channel	Frequency (MHz)
0	2424.5
1	2449.5
2	2480.0