

# Product Comparison

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BBx vs. MultiConnect



## INTRODUCTION

The MultiConnect device is similar in many ways to the BBx, particularly in the RF Modem section. There are however several important differences between the devices which shall be described in this document.

## OVERVIEW

The MultiConnect and the BBx are comprised of two internal PCBs, plus an internal modem.

**BBx:** CPU board - contains a microprocessor, voltage regulator, load dump protection circuit, GPS receiver, various transceivers and many other devices which allow it to perform it's complex functions.

Modem board: Interfaces to the CPU board. It is composed of a voltage regulator and a few logic gates. It also holds the Motorola iO1500 OEM module.

**MultiConnect:** Main board – contains a voltage regulator, RS232 transceiver, load dump protection circuit, as well as a few logic gates.

Modem board: Interfaces to the Main board. It is composed of a voltage regulator and a few logic gates. It also holds the Motorola iO1500 OEM module.

## DEVICE SIMILARITIES

- Both devices use the same switching power supply.
- The load dump circuit is very similar except the MultiConnect circuit is slightly more robust.
- Both devices use the same iO1500 modem and the layout of the modem boards is very similar.
- The modem board voltage regulator is the same in the BBx and MultiConnect.

## DEVICE DIFFERENCES

- The MultiConnect Main board is essentially the same as the BBx CPU board, but with the majority of the components stripped off. The components on the MultiConnect are described in the Overview section.
- The MultiConnect Modem board has a different interface pin-out than the BBx.
- The MultiConnect Modem board has a different logic gate set-up than the BBx.

## CONCLUSION

The MultiConnect is a stripped down and simplified version of the BBx. The RF sections of the devices are nearly identical. Also, be aware that the MultiConnect has undergone FCC testing in the past for PTCRB approval, albeit with a different internal modem module and has been assigned FCC ID: RZ3MCON0901, IC ID: 2234A-MCON0901.