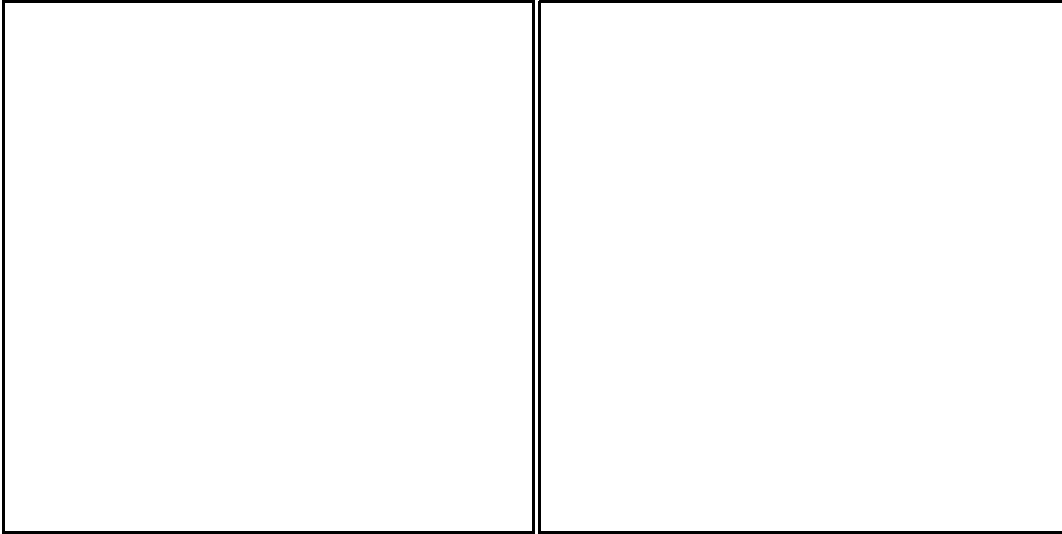


UBX Getting Started Guides

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- UBX Daughterboard
 - Screws



- N or X Series
- X Series only

For complete step by step instructions to installing a daughterboard, please see the [USRP N Series Quick Start \(Daughterboard Installation\)](#) or [USRP X Series Quick Start \(Daughterboard Installation\)](#) guides.

All Ettus Research products are individually tested before shipment. The UBX is guaranteed to be functional at the time it is received by the customer. Improper use or handling of the UBX can easily cause the device to become non-functional. Listed below are some examples of actions which can prevent damage to the unit:

- Never allow metal objects to touch the circuit board while powered.
- Always properly terminate the transmit port with an antenna or 50 Ω load.
- Always handle the board with proper anti-static methods.
- Never allow the board to directly or indirectly come into contact with any voltage spikes.
- Never allow any water, or condensing moisture, to come into contact with the boards.
- Always use caution with FPGA, firmware, or software modifications.

Never apply more than -15 dBm of power into any RF input.

Always use at least 30dB attenuation if operating in loopback configuration