QICK System RF216 Main board

Main Board for the QICK system

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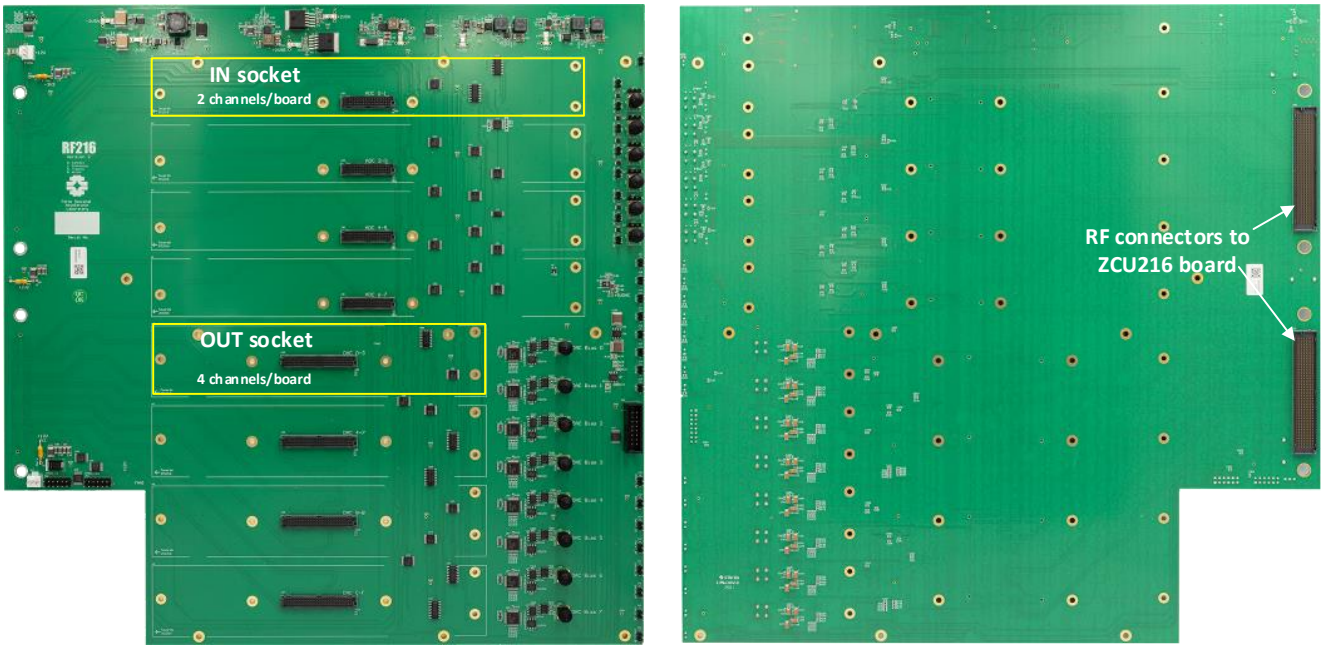
The **RF216 Main** Board interfaces with the ZCU216 and acts as the central hub for power distribution, protection circuitry, and modular I/O expansion. It supports up to four input and four output daughterboards. A total of six daughterboards are available—three 2-channel input boards (RF In, DC In, and Balun In) and three 4-channel output boards (RF Out, DC Out, and Balun Out). The input boards provide varying levels of signal conditioning before routing analog signals to the ZCU216, while the output boards implement different signal processing paths tailored to their respective applications before driving signals to the output SMA connectors.



In typical use, the RF216 Main Board is mounted directly onto the ZCU216 board, and the combined assembly is installed inside the QICK enclosure, as shown below. Users select and install input and output daughterboards based on their specific system requirements. Analog input and output signals from the daughterboards are routed to the enclosure's panel-mount SMA connectors using the included coaxial cables. RF and control signals are transmitted to the ZCU216 through high-speed board-to-board connectors between the RF216 and ZCU216 boards.

Assembly instructions and more information on each of the daughter boards are available on the QICK page of the Real Digital website.

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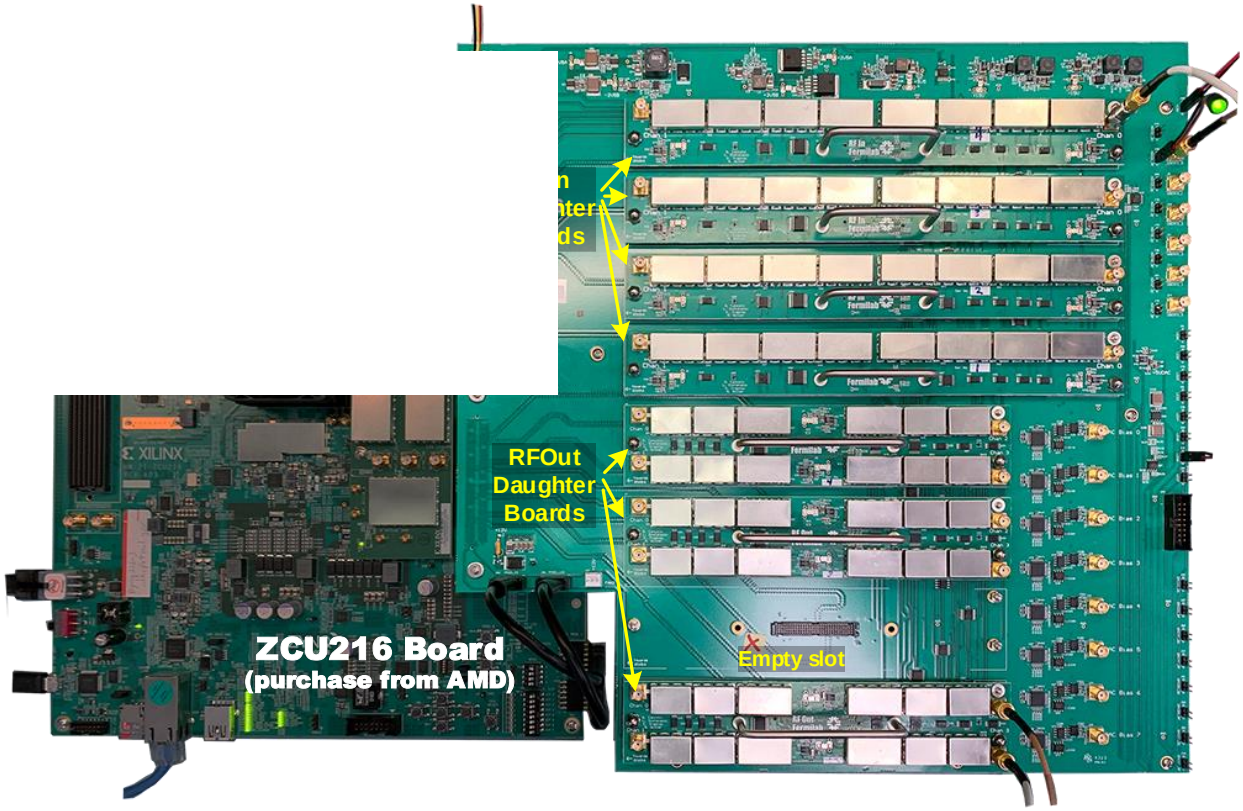

The RF Main board is mounted directly to the ZCU216 board and installed in the QICK case.

Daughter boards are mounted to the RF Main board, and connected to the front panel using the included SMA cables.