

USRP-2942R



The USRP-2942 provides an integrated hardware and software solution for rapidly prototyping high-performance wireless communication systems. Built on the LabVIEW reconfigurable I/O (RIO) architecture, USRP RIO delivers an integrated hardware and software solution, so researchers can prototype faster and significantly shorten time to results. You can prototype a wide range of advanced research applications that include multiple input, multiple output (MIMO); synchronization of heterogeneous networks; LTE relaying; RF compressive sampling; spectrum sensing; cognitive radio; beam forming; and direction finding.

Features

- » Tunable RF transceiver
- » Frequency range of 400 MHz to 4.4 GHz
- » 40 MHz version transmits and receives bandwidth up to 40 MHz
- » 120 MHz version transmits and receives bandwidth up to 120 MHz
- » High-speed ADC and DAC for streaming baseband I and Q signals to a host PC over 1/10 gigabit Ethernet or PCI Express (using MXI-Express)
- » Programmable with the NI-USRP instrument driver in LabVIEW