

## FEATURES

- Single channel Rx/Tx
- Independent frequency tuning to 18 GHz
- 80 MHz Bandwidth per tuner/exciter channel
- 1GigE and 10GigE data output ports
- 4"W x 2"H x 7"D, 2.5 lbs., 20 W

- FPGA-based signal processing
  - Kintex 7 Series FPGA
- Geolocation Enabled
  - External 1PPS input for time tagging
  - Optional VRT (VITA-49) formatted Digital IF data with timestamp
- GNU Radio Control

# NDR601 Microwave Transceiver

## DESCRIPTION

The NDR601 is a single channel Rx/Tx digital microwave transceiver that provides independent frequency coverage from 1 to 18 GHz (1 to 18 GHz Tx), with a 80 MHz bandwidth. The RX channel is digitized and can be processed using an on-board FPGA digital processor. Wideband Rx data is decimated using software selectable decimation stages and transmitted via Gigabit and 10 Gigabit Ethernet interfaces. Waveforms can be transmitted through the 1 GigE and 10GigE interfaces via a variety of digital bandwidths available for selection. The waveform is modulated through the dual stage up-converter for transmission either to an antenna or external power amplifier.

## APPLICATIONS

- Satellite Communication Development
- RADAR System Development
- Spectrum Monitoring



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