FEATURES
- 6-Channel wideband digital tuner
- Phase coherent or independent tuning
- 40 MHz bandwidth
- Internal FPGA-based signal processing
  - Narrowband channelizer
  - Streaming I/Q baseband digital IF data
- Geolocation enabled
  - Embedded GPS receiver with 1PPS disciplined 10MHz
  - Optional time-stamped VITA-49 digital IF data
- 16-bit ADCs with 102.4 MSPS sample rate
- Gigabit Ethernet digital IF data output
- Simple USB serial control (ASCII mnemonics)
- 6 analog IF outputs
- 8”W x 1.5”H x 12”D, 6.5 lbs., 30 W
- Software tools and API for easy integration

DESCRIPTION
The NDR304 is an affordable 6-Channel wideband digital tuner that converts the VHF/UHF spectrum to digital IF (I/Q) data over Gigabit Ethernet. The NDR304 includes six independent tuners that cover the 20 to 3000 MHz frequency range with a 40 MHz bandwidth. Each channel can tune independently or the tuners can operate phase coherently for applications such as beam forming or direction finding. To enable Geolocation applications, the NDR304 includes an embedded GPS receiver, an external 1PPS input and optional precision time-tagged digital IF data formatted based on the VITA 49 standard. The unit is packaged in a rugged aluminum chassis that provides RF shielding, thermal heat management and protection suitable for harsh environments.

APPLICATIONS
- Network Definable Receiver Node
- Multichannel Direction Finding and Beam forming
- Precision Geolocation
- Spectral Search and Survey