

## FEATURES

- 2 Channel Wideband Microwave Tuner
- 20 MHz to 18 GHz Frequency coverage
- 100 microsecond tuning speed
- 1GHz analog IF Output
- Selectable IF Bandwidths (500 MHz, 300 MHz, 200 MHz, and 125 MHz)
- Suboctave pre-selection
- Gigabit Ethernet Control
- 1U Rackmount form factor
- Future Wideband Digitized IF Output
  - 40 GigE optical QSFP+ interface

## APPLICATIONS

- Spectrum Monitoring
- Wideband Recording Systems
- Satellite Communication Interference Monitoring
- Radar Monitoring
- Navigation Monitoring



# NDR559

## 20 MHz to 18 GHz Microwave Tuner

### DESCRIPTION

The NDR559 wideband microwave tuner is a 2 channel, superheterodyne downconverter that covers microwave signals from 20 MHz to 18GHz. It is housed in a 1U, 19 Inch equipment frame with dual 1GHz IF output ports. The dual 1GHz IF ports have selectable IFBW of 125 MHz, 200 MHz, 300 MHz and 500 MHz. Command and Control of the wideband microwave tuner is via the Gigabit Ethernet control port and power is derived from a 115 VAC external power supply input. The Gigabit Ethernet control utilizes an embedded ARM processor and LINUX operating System.

The Gigabit Ethernet control utilizes an embedded ARM processor and LINUX operating System. Future options include an integrated digitizer and FPGA to allow for streaming digital IF output. The IF output would be present on one of the Dual 40GigE optical QSFP+ data ports while the Kintex Ultrascale FPGA would be used for a channelizer, the VITA-49 formatter and data multiplexer. The unit is packaged in a rugged aluminum chassis that provides RF shielding, thermal management, and protection suitable for harsh environments.