

FEATURES

- 4 channel 3U VPX wideband microwave tuner
- 0.1 to 18 GHz frequency coverage
- Industry leading channel density
- Independent and phase coherent tuning
- 1 GHz analog IF output
- 500 MHz bandwidth
- Single slot 3U VPX form factor, 2.5 lbs., 40 W



NDR584

3U VPX Wideband Microwave Tuner

DESCRIPTION

The NDR584 is a wideband, 4 channel, 3U VPX microwave tuner that provides frequency coverage from 100 MHz to 18 GHz. The NDR584's industry leading channel density minimizes system level SWaP. Each of the 4 channels provides a 1 GHz analog IF output with a 500 MHz instantaneous bandwidth. The channels can tune both independently and phase coherently and multiple NDR584 units can be combined for phase coherent operation. The NDR584 incorporates a super-heterodyne RF conversion architecture to minimize spurious products and yield high dynamic range performance. The fully integrated synthesizers provide fast tuning, low phase noise and the tuning flexibility to choose an alternative IF output center frequency (an IF different than 1 GHz) if desired. The NDR584 includes an internal 100 MHz OCXO and accepts both a 10 MHz reference input and a 1PPS input.

The unit's form factor is single slot (1 inch pitch) 3U VPX and the total power consumption is 40 Watts (10 Watts per channel). To ease integration, both power and control are provided over the VPX backplane. The NDR584 is controlled via a Gigabit Ethernet interface over the VPX backplane. The NDR584 digital architecture is based on the Xilinx 7000 series Zync SoC.

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