

NDR664

3U VPX Microwave Transceiver

A 4 CHANNEL SUPERHETERODYNE 3U VPX PLATFORM

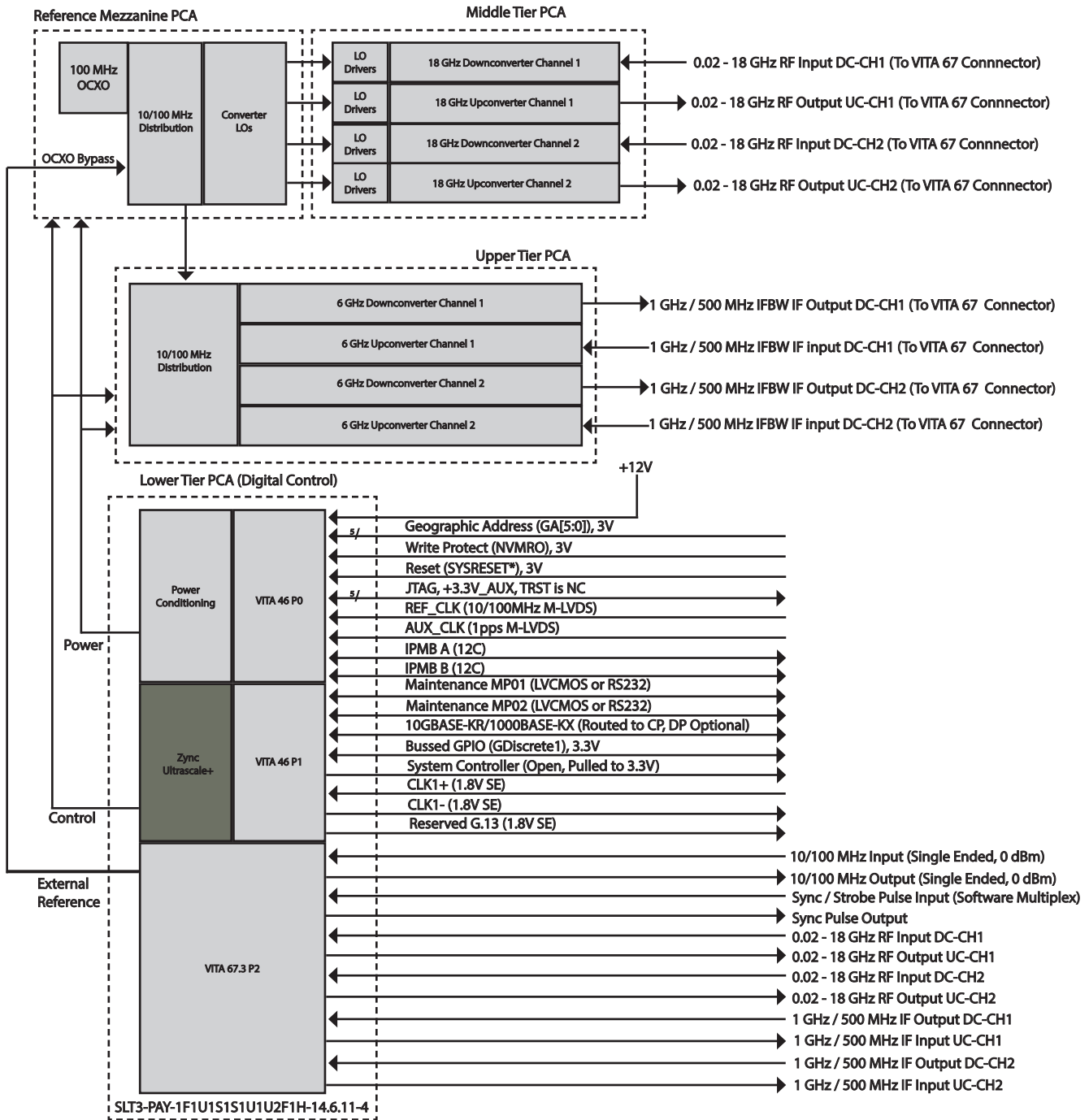
The NDR664 is a 4 channel, 3U SOSA aligned microwave transceiver that provides frequency coverage from 20 MHz to 18 GHz. The NDR664's industry leading channel density minimizes system level SWaP. Each of the 4 channels provides a 1 GHz analog IF output with a 500 MHz instantaneous bandwidth. The 2 tuner channels can tune both independently and phase coherently and the 2 transmit channels can tune both independently and phase coherently and multiple NDR664 units can be synchronized for phase coherent operation. The NDR664 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 input/output center frequency (an IF different than 1 GHz) if desired. The NDR664 includes an internal 100 MHz OCXO and accepts a 10 MHz reference input.

The transceiver's form factor is single slot (1 inch pitch) 3U VPX and the total power consumption is 48 Watts (12 Watts per channel). The RF interface is provided through the VPX backplane using coaxial ports that are compliant with VITA 67.3. The backplane interface is compliant with SOSA, and VITA 46/65 OpenVPX. The NDR664 is controlled via a Gigabit Ethernet interface over the VPX backplane via a 1G/10G Ethernet. The NDR664 digital architecture is based on the Xilinx Zynq SoC.

KEY HIGHLIGHTS

- 4 Channel SOSA Aligned 3U VPX Microwave Transceiver Platform
- 20 MHz to 18 GHz RF Coverage
- 500 MHz Bandwidth
- Independent and Phase Coherent Tuning
- 1 GHz IF Input/Output
- MORA 2.4 BSP
- Slot Profile – SLT3-PAY-1F1U1S1S1U-1U2FIH-14.6.11-4
- 1G/10G Ethernet command control
- 48 W Power Consumption

BLOCK DIAGRAM



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