VANTEON®

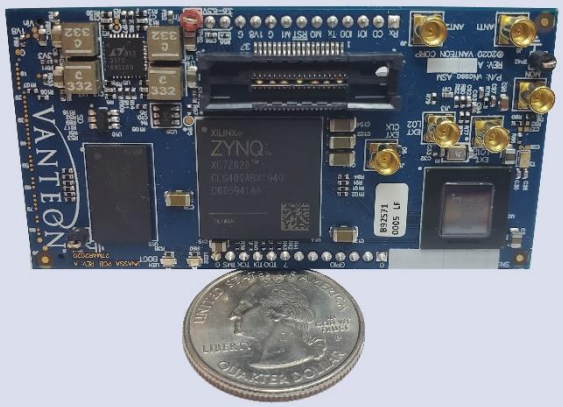
WIRELESS SOLUTIONS

PRODUCTS

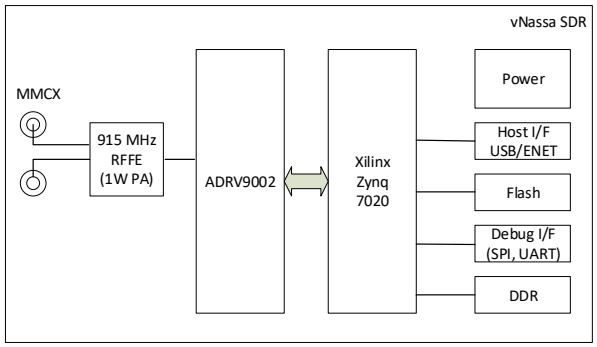
vNASSA™

Industrial Software-Defined Radio (SDR)

The vNassa™ SDR is targeted at serving the narrowband industrial markets, with its balance of performance and cost, in a highly integrated and ultra-flexible radio platform.



vNassa™ is the perfect Wideband SDR for narrowband applications commonly found in the industrial wireless marketplace. It provides an optimized balance of performance and cost that is tuned for the industrial market.



Performance Specifications

- 915 MHz RF front end with 30 dBm transmit power
- Small footprint (7.3 cm x 3.8 cm)
- Low power consumption
- 1 TX and 1 RX operation
- USB and Ethernet host interface
- On-board 128 Mb Flash
- On-board 1 Gb DDR SDRAM
- UART and SPI debug ports

Accelerate Your Design

Let Vanteon's engineering team help you get your products to market faster with a proven scalable SDR design.

Call us at 888.506.5677 or email sales@vanteon.com

Platform Features

The vNassa™ platform offers the following key features:

- Xilinx Zynq-7020 FPGA for high performance signal processing
- Dual Embedded ARM Cortex A9 processors in the Zynq core
- ADI ADRV9002 highly integrated, wide frequency range RF transceiver
- Performance enhancing RF Front End (RFFE) to improve on the transceiver FE
- Available DSP module library of target-agnostic C/C++, VHDL, and MATLAB/Simulink® DSP core radio functions:
  - Modulation/demodulation (ASK/AM, FSK/FM, PSK/PM, QAM, OFDM)
  - Digital down/up conversion
  - Symbol timing recovery/tracking
  - Carrier recovery/tracking
  - Filters (FIR, IIR, multi-rate, adaptive)
  - Automatic gain control
  - Channel coding
  - Multichannel TX/RX capabilities
  - FEC (e.g., convolutional, Reed-Solomon)
  - Spread spectrum coding
  - Customizable MAC