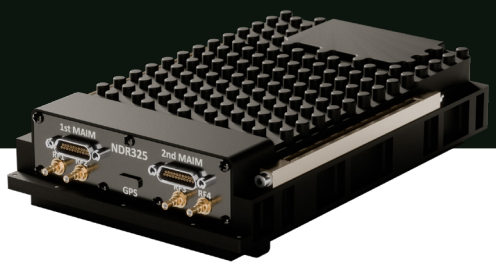


NDR325

PRELIMINARY

4 Channel Software Defined Payload

A MODULAR PAYLOAD 1U FORM FACTOR

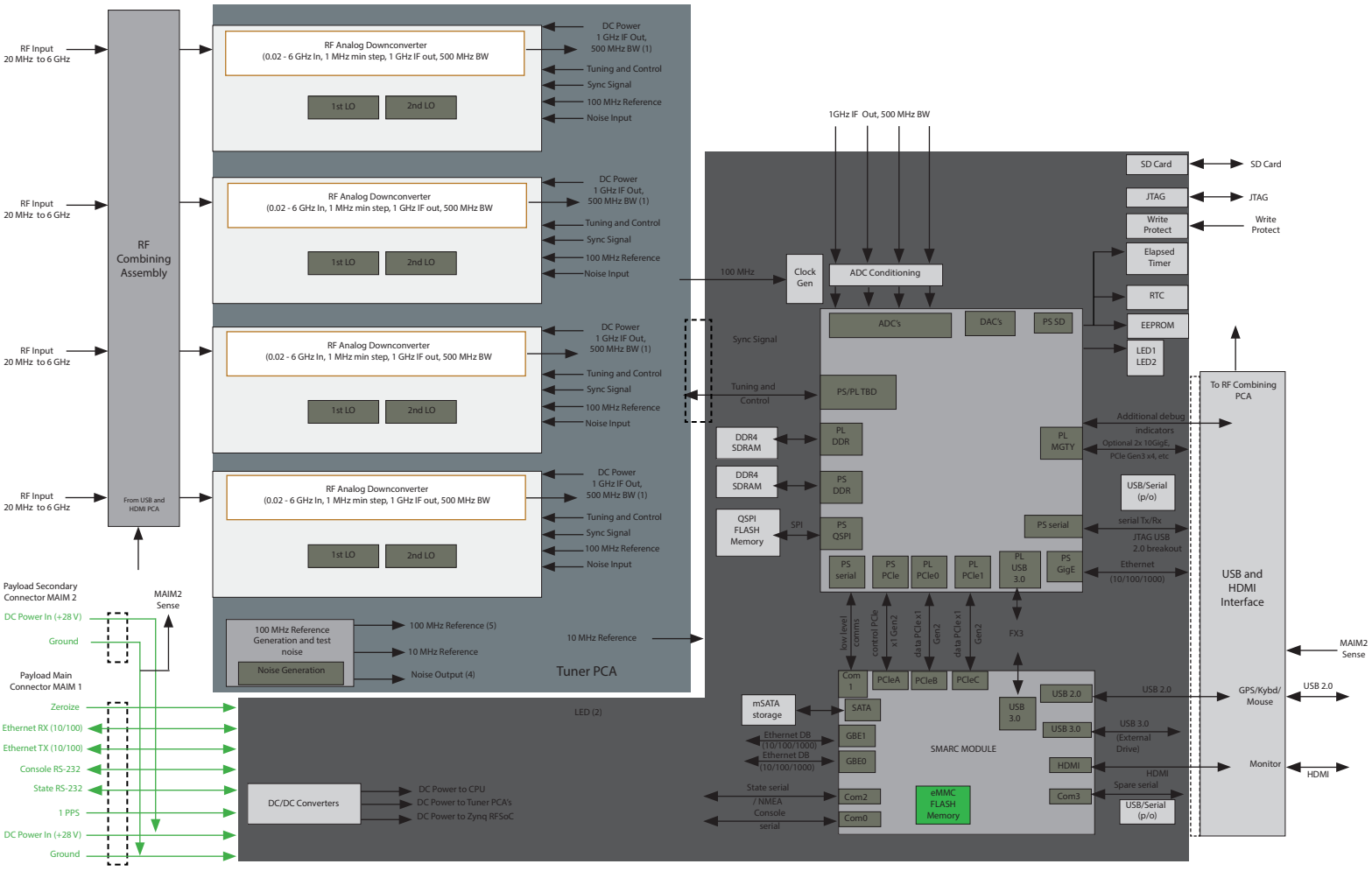
The NDR325 is a software defined payload packaged in a Modular Payload (Mod Payload) Design Standard, Rev. 5.0 compliant 1U form factor. It includes a 4-channel, super-heterodyne tuner that covers RF signals from 20 MHz to 6 GHz and each channel provides a 500 MHz instantaneous bandwidth. The unit provides both independent and phase coherent tuning to support applications such as search, survey, direction funding and geolocation. An on-board Xilinx Zynq UltraScale+ RFSoC is used for the A/D converters, the channelizer, the VITA-49 formatter, the data multiplexer and multiple lower bandwidth DDCs. Internal Digital IF data is routed to integrated COTS processing (SMARC with the Intel® Atom™ x7-E3950 1.6 GHz Quad Core Processor) and the unit includes a board support package for loading custom software applications.

Command and control are via an Ethernet interface and power is derived from a +28 VDC power input. The NDR325 is packaged in a rugged, conduction-cooled aluminum chassis that provides RF shielding, thermal management, and protection suitable for harsh environments.

KEY HIGHLIGHTS

- 4 Channel Software Defined Payload
- 20 MHz to 6 GHz Frequency Coverage
- 500 MHz Bandwidth
- Independent & Phase Coherent Tuning
- Modular Payload (Mod Payload) Design Standard, Rev. 5.0 compliant 1U Form Factor
- Flexible Power Management
- Ethernet Comand and Control
- Xilinx Zynq UltraScale+ RFSoC processing architecture
- SMARC with Intel® Atom™ x7-E3950 1.6 GHz Quad Core Processor
- 67W Power Consumption

BLOCK DIAGRAM



Specifications subject to change without notice.
Epiq Solutions is a business dedicated to advancing RF technology through products designed and manufactured in the U.S.A.
Epiq Solutions exports its products strictly in accordance with all US Export Control laws and regulations which shall apply to any purchase or order.

v(1) Rev1.0

epiqsolutions.com
sales@epiqsolutions.com
847 598 0218

3740 Industrial Ave,
Rolling Meadows, IL 60008