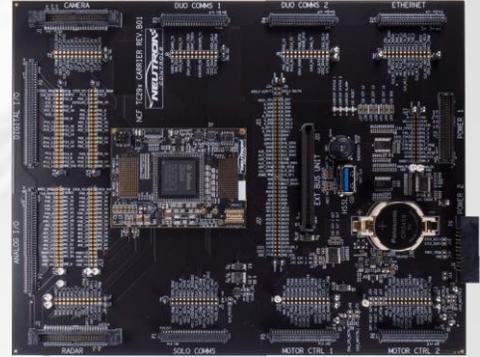




Designed by Engineers for Engineers

BASE CARRIER DEVELOPMENT PLATFORM

For use with AURIX™ MCU Platform Module 1st
and 2nd generations



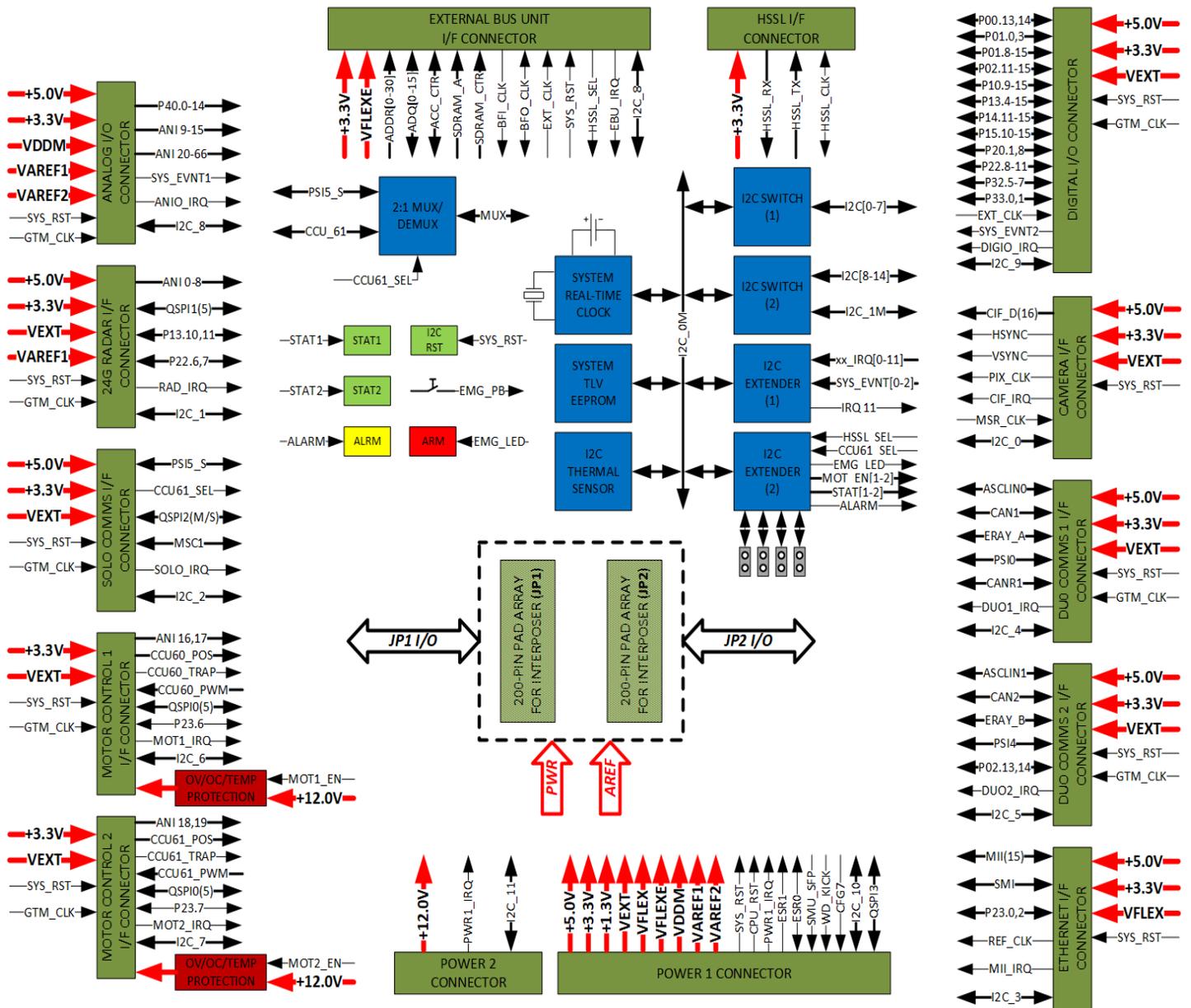
Overview

- The REDline™ Carrier board works as a base, or motherboard, interconnecting our AURIX™ MCU Platform Modules to any number of peripheral modules servicing dedicated and generic MCU functions.
- The Carrier board provides connectivity between all MCU Platform Modules and peripheral connectors via two 200-position pad arrays.
- This board allows 100% of the MCU functional connectivity down to a particular peripheral module, even for largest 516-pin BGA package.
- Easily accessible and clearly marked test points provide hassle-free access to 100% of the routed signals. All test points are arranged on a grid allowing the use of press-fit headers when group signal probing is required.
- Separated digital and analog signal domains.
- A complete hardware development support package is available including: schematics, BOM, layout, Gerbers, PCB stack-up, and high-speed signal design rules.

Features

- 400-position pad array with spring-leaf mounted interposers allows for easy MCU Platform Module exchange.
- 14 dedicated peripheral connectors covering: Ethernet, DuoComms1/2, Camera, Digital/Analog I/O, 24G Radar, SoloComms, Motor Control1/2, Power1/2, EBU and HSSL.
- Reliable 1.27mm pitch dual row connectors serving high current and high-speed signal applications.
- Versatile External Bus Unit (EBU) slot allows for: SDRAM, SRAM, PSRAM, NOR flash and FPGA parallel bus prototyping.
- Real-Time Counter with battery back-up for uninterrupted time stamping and logging.
- Overcurrent protection on +12V supply to Motor Control1/2 modules.
- Emergency Shutdown simulation pushbutton with red LED arming indication.
- Twisted pair ribbon cable connection allowing flexible Sensor and Radar modules' positioning and helping reduce EMI profile.
- "Status1/2" and "Alarm" s/w controlled LED.

BASE CARRIER DEVELOPMENT PLATFORM



Compatibility

- The Module is designed to work with AURIX™ MCU Platform Modules' product line.

Ordering Information

- Module Part Number: **RDL-DEVCDP-00x** (see datasheet for exact ordering options)
- Supplier: **Neutron Controls**, 350 Palladium Drive, Suite 102 Ottawa, Ontario, Canada K2V 1A8

