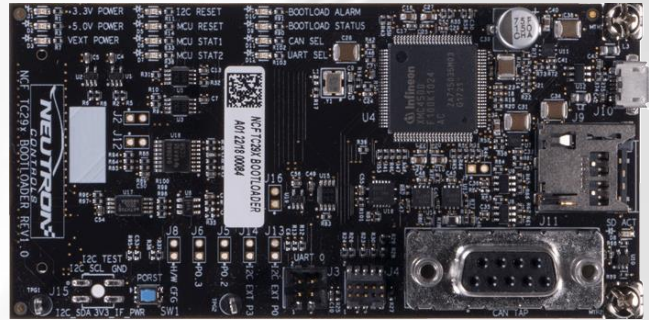




Designed by Engineers for Engineers

BootLOADER

Interface Module in «Duo Comms Format For Aurix CAN and ASC/UART-Based Intelligent Bootloader Development XMC4500 MCU Assisted



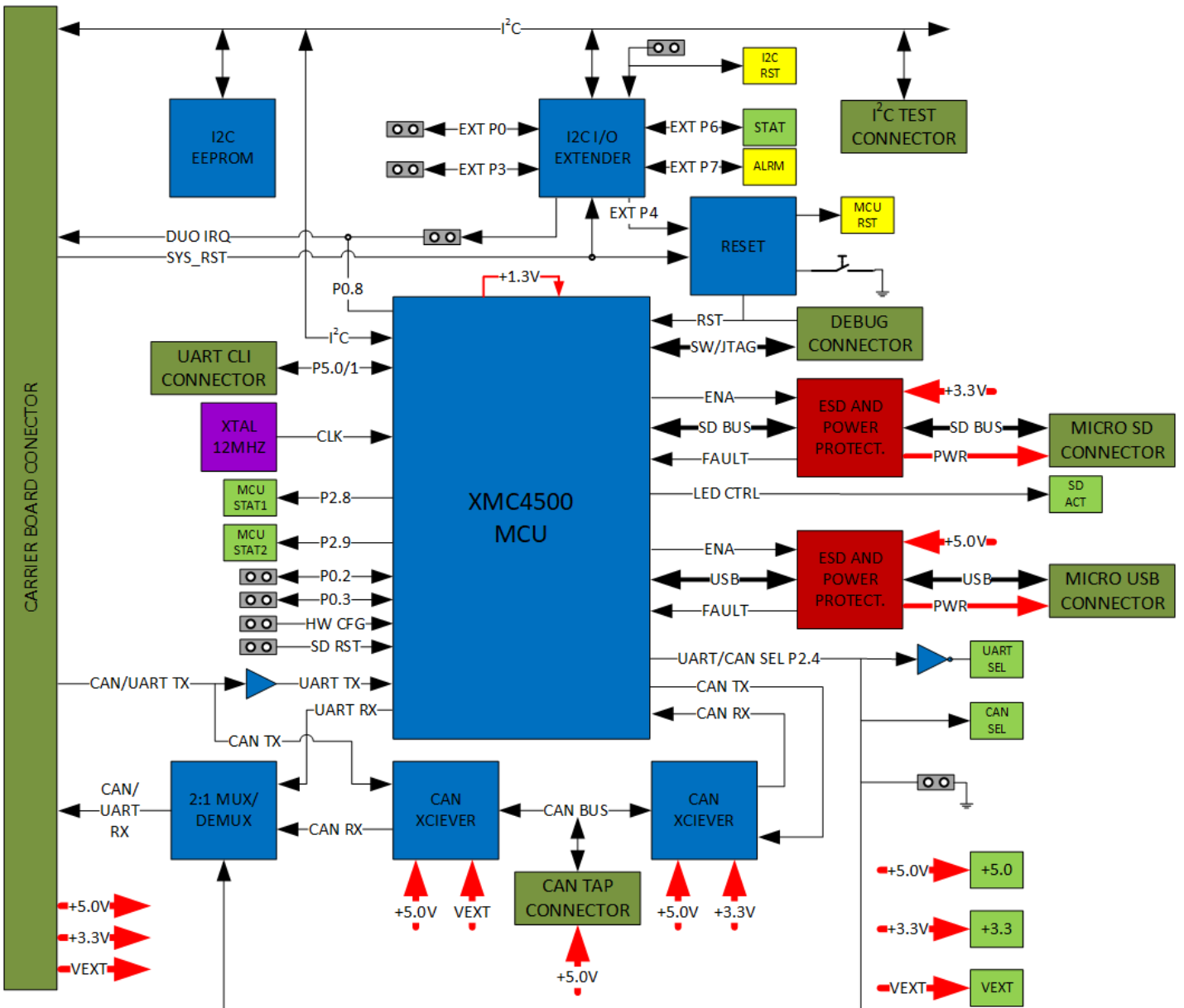
Overview

- Designed for use with our REDline™ Carrier board, this Module provides seamless interfacing for development and troubleshooting of the AURIX™ MCU Platform Module bootloader firmware.
- The module is intended to work with the CAN, CANSPD and ASC/UART boot option modes available on all AURIX™ devices.
- The "Duo Comms" form factor allows using either one of two available sockets on Carrier board.
- Highly flexible and multi-staged bootloader firmware development capabilities are made possible by use of a built-in, standalone XMC4500 MCU.
- A complete hardware development support package is available including: schematics, BOM, layout, gerbers, PCB stack-up, and high-speed signal design rules.
- Base module software includes a CLI (via UART and/or USB) providing an easy to use communication interface bridging the HOST application to the AURIX™ MCU. Includes software BSP for XMC4500 and available ACS/Generic Bootstrap Loader sources for the AURIX™ MCU.
- All software projects and sources are built using the TASKING VX-toolset for TriCore.

Features

- CAN, CAN single pin DAP (SPD) or ASC bootloader compatible interface.
- Self-contained XMC4500-based system with its own clock, core power and reset domains.
- USB2.0 connectivity for easy file transfer and host-based bootloader control for in-field application update, including wireless Software Over The Air (SOTA), and end of line programming.
- MicroSD card storage device provides available hardware support for multiple image scenarios and bootloader event logging recording.
- Secure Booting firmware emulation for HSM-enabled AURIX™ MCU.
- Industry standard CAN tap connector for 3rd party CAN emulation/monitoring tools' interconnect.
- Extra UART/CLI channel for direct XMC4500 communication.
- LED indication on +5V, +3.3V, VEXT and System Reset signals.
- "Status" and "Alarm" AURIX™-controlled LED. • "Status1", "Status2" and "CAN/ASC" interface selection LED indication by XMC4500.
- Jumper selectable hardware signal extensions for target system flag/trigger prototyping.





Compatibility

- The Module is designed to work with AURIX™ Base Carrier Development Platform

Ordering Information

- Module Part Number: **RDL-ITFBTL-001**

