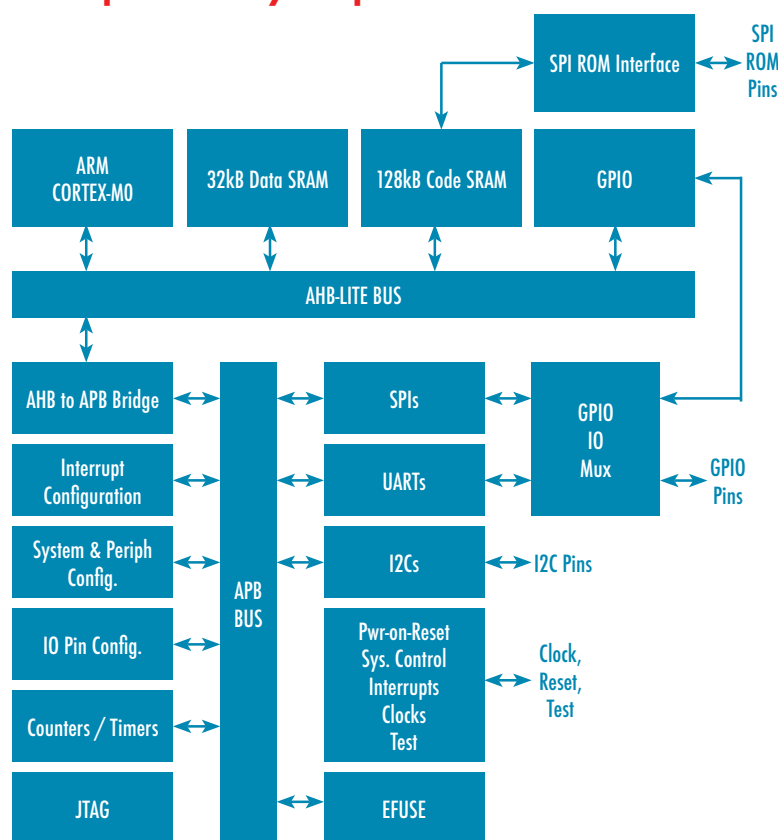


Radiation-Tolerant Arm® Cortex®-M0 Microcontroller VA10805



32-Bit ARM® Cortex®-M0 Microcontroller
manufactured with HARDSIL® technology
offering superior operational lifetimes, 300
krad (Si) TID, low leakage performance and
latch-up immunity in space.



RADIATION HARDENED PERFORMANCE

- Total Ionizing Dose (TID) > 300 krad (Si)
- Latchup immunity > LET = 110MeV-cm² / mg (T= 125°C)

SUPPORT

- REB1 development board
- Keil™ MDK-ARM microcontroller software kit

APPLICATIONS

- Aerospace
- LEO
- SmallSat
- CubeSat

KEY FEATURES

- Manufactured with HARDSIL® technology
- 32-bit Arm® Cortex®-M0 processor Manufactured with HARDSIL® technology
 - JTAG based debug interface 32KB on-chip data SRAM
- Operating voltages
 - Core voltage 1.5 +/- 0.15V
 - I/O voltage 3.3 +/- 0.33V
- Clock rate 50MHz
- Memory
 - 32KB on-chip data and 128KB on-chip program memory
 - 1KB Efuse for custom boot and unique ID support
- Peripherals
 - 54 configurable GPIO pins
 - 2 UART interfaces
 - 2 I2C interfaces
 - 3 SPI interfaces (2 master / slave, 1 master)
- Temperature range -55 to 125°C
- Timer System
 - 24 configurable 32-bit counters / timers
 - Input capture, Output compares
 - PWMs, Pulse Counters, Watchdog timer
- Package
 - Plastic 128 pin LQFP (14 x 14mm)

VORAGO parts are subject to export control restrictions by the US Department of Commerce. We are obliged to know who the customer is, where the parts will ultimately end, and what application they are to be used for. ECCN classification 3A001.