System Architecture

Processor Specifications:

ST Microelectronics STM32L151ZDT6 Low-Power ARM Processor.

Key Features:

32 MHz @ 238 uA/MHz 382 KB ECC Flash 48 KB ECC SRAM 12 KB ECC EEPROM LQFP144

Operating System:

ChibiOS/RT 2.4.3 RTOS

Key Features:

1.2-5.5 KiB Kernel Size preemptive scheduling, round-robin for like priorities 128 priority levels mutexes, semaphores, events, message queues thread-safe heap hardware abstraction layer with STM32L1 support