

STM32H753IIT6

MAIN CLOCK = 400 MHz

FreeRTOS (MiddleWare)

Peripherals

USART = 2 MBaud

SPI Hard = 7 MBit/s

SPI Soft = 3 MBit/s

I2C = 400 KHz

TIMER

DMA

ADC

ETH

Tasks

Power Up control

AFE5808A Driver

DAC AD5327 Driver

Current Monitor Driver

Control Timing Driver

uC-FPGA Interface Driver

Command interpreter

Scheduler

- Tasks
- Mutexes
- Semaphores
- Queues

TIMING Interface

COMMAND Interface

PERIPHERAL Interface

FPGA Interface

CONTROL Interface

Communication

Ethernet

Slave Serial