Manual Peripherals

Monday, May 05, 2014 2:05 PM

HAL requirements:

GPT: 1 Timer for control loop callback (100Hz)

1 Timer for ADC sample command (2KHz)

MAC: Enoble for use with IPHY

USB: I USB controller for development port

ADC: 2 ADCs for Axis Manual Inputs

GPIO: 6 outputs - Mode LED's, Aux LED's, Neutral LEDs

3 inputs - Enable, Mode, Aux suitches

GPT: TIM1: Control loop callback

NO I/O for this peripheral

TIM2: ADC convert command callback

NO I/O for this peripheral

MAC: MAC: Ethernet PHY interface (RMII)

ETH_RMIL_REF_CLK:
ETH_CRS_DV
ETH_RXDO
ETH_RXDI
ETH_TX_EN
ETH_TX_DO
ETH_TXDO
ETH_TXDI

ETHL MPINT ETH_MDC ETH_MDIO MCOI-ETH-CLK

USB: USBI: USB development port/Shell interface

VBUS:

DM :

DP:

ADC : ADCI latAxis Input

ADC12_INY: PAY

ADCI: Ch4

GPLO: Analog Input

ADC2: vert Axis Input

A DC12_IN5: PAS

ADC2: Ch5 GPIO: Analog Input

GPIO: GPIOA - Enoble Suitch input

ENABLE: PA6 GPIO: Input Pulldown

GPIOC - Aux I Indicator LED (output)

AUXILED: PCO

GPIO: Output

GPIOE - Mode/Aux Switch(inputs)

MODE: PE4 AUX : PE6

GPIOF - Aux2/ Neutral LED's (outputs)

AUXZLED: PF8 LATNEVTLED: PF10 VERTNEUTLED: PF9

GPIOG-Mode LED's (outputs)

MODELLED: PG12 MODEZ LED: PG15