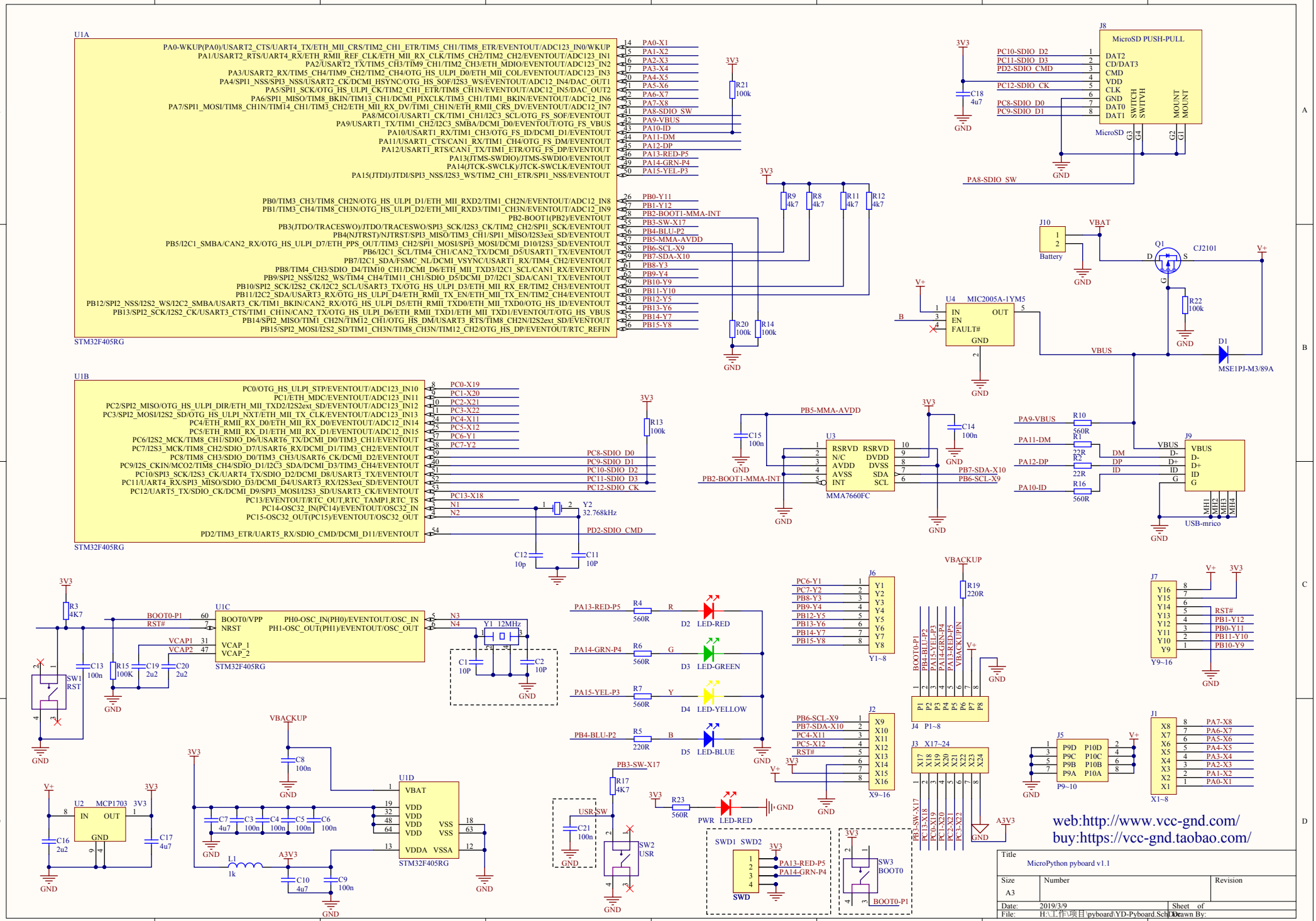
U1A
STM32F405RG
PA0-WKUP(PA0)/USART2_CTS/UART4_TX/ETH_MII_CRS/TIM2_CH1_ETR/TIM5_CH1/TIM8_ETR/EVENTOUT/ADC123_IN0/WKUP
PA1/USART2_RTS/UART4_RX/ETH_RMII_REF_CLK/ETH_MII_RX_CLK/TIM5_CH2/TIM2_CH2/EVENTOUT/ADC123_IN1
PA2/USART2_TX/TIM5_CH3/TIM9_CH1/TIM2_CH3/ETH_MDIO/EVENTOUT/ADC123_IN2
PA3/USART2_RX/TIM5_CH4/TIM9_CH2/TIM2_CH4/OTG_HS_ULPI_D0/ETH_MII_COL/EVENTOUT/ADC123_IN3
PA4/SPI1_NSS/SPI3_NSS/USART2_CK/DCMI_HSYNC/OTG_HS_SOF/I2S3_WS/EVENTOUT/ADC12_IN4/DAC_OUT1
PA5/SPI1_SCK/OTG_HS_ULPI_CK/TIM2_CH1_ETR/TIM8_CH1N/EVENTOUT/ADC12_IN5/DAC_OUT2
PA6/SPI1_MISO/TIM8_BKIN/TIM13_CH1/DCMI_PIXCLK/TIM3_CH1/TIM1_BKIN/EVENTOUT/ADC12_IN6
PA7/SPI1_MOSI/TIM8_CH1N/TIM14_CH1/TIM3_CH2/ETH_MII_RX_DV/TIM1_CH1N/ETH_RMII_CRS_DV/EVENTOUT/ADC12_IN7
PA8/MCO1/USART1_CK/TIM1_CH1/I2C3_SCL/OTG_FS_SOF/EVENTOUT
PA9/USART1_TX/TIM1_CH2/I2C3_SMBA/DCMI_D0/EVENTOUT/OTG_FS_VBUS
PA10/USART1_RX/TIM1_CH3/OTG_FS_ID/DCMI_D1/EVENTOUT
PA11/USART1_CTS/CAN1_RX/TIM1_CH4/OTG_FS_DM/EVENTOUT
PA12/USART1_RTS/CAN1_TX/TIM1_ETR/OTG_FS_DP/EVENTOUT
PA13(JTMS-SWDIO)/JTMS-SWDIO/EVENTOUT
PA14(JTCK-SWCLK)/JTCK-SWCLK/EVENTOUT
PA15(JTDI)/JTDI/SPI3_NSS/I2S3_WS/TIM2_CH1_ETR/SPI1_NSS/EVENTOUT
PB0/TIM3_CH3/TIM8_CH2N/OTG_HS_ULPI_D1/ETH_MII_RXD2/TIM1_CH2N/EVENTOUT/ADC12_IN8
PB1/TIM3_CH4/TIM8_CH3N/OTG_HS_ULPI_D2/ETH_MII_RXD3/TIM1_CH3N/EVENTOUT/ADC12_IN9
PB2-BOOT1(PB2)/EVENTOUT
PB3(JTDO/TRACESWO)/JTDO/TRACESWO/SPI3_SCK/I2S3_CK/TIM2_CH2/SPI1_SCK/EVENTOUT
PB4(NJTRST)/NJTRST/SPI3_MISO/TIM3_CH1/SPI1_MISO/I2S3ext_SD/EVENTOUT
PB5/I2C1_SMBA/CAN2_RX/OTG_HS_ULPI_D7/ETH_PPS_OUT/TIM3_CH2/SPI1_MOSI/SPI3_MOSI/DCMI_D10/I2S3_SD/EVENTOUT
PB6/I2C1_SCL/TIM4_CH1/CAN2_TX/DCMI_D5/USART1_TX/EVENTOUT
PB7/I2C1_SDA/FSMC_NL/DCMI_VSYNC/USART1_RX/TIM4_CH2/EVENTOUT
PB8/TIM4_CH3/SDIO_D4/TIM10_CH1/DCMI_D6/ETH_MII_TXD3/I2C1_SCL/CAN1_RX/EVENTOUT
PB9/SPI2_NSS/I2S2_WS/TIM4_CH4/TIM11_CH1/SDIO_D5/DCMI_D7/I2C1_SDA/CAN1_TX/EVENTOUT
PB10/SPI2_SCK/I2S2_CK/I2C2_SCL/USART3_TX/OTG_HS_ULPI_D3/ETH_MII_RX_ER/TIM2_CH3/EVENTOUT
PB11/I2C2_SDA/USART3_RX/OTG_HS_ULPI_D4/ETH_RMII_TX_EN/ETH_MII_TX_EN/TIM2_CH4/EVENTOUT
PB12/SPI2_NSS/I2S2_WS/I2C2_SMBA/USART3_CK/TIM1_BKIN/CAN2_RX/OTG_HS_ULPI_D5/ETH_RMII_TXD0/ETH_MII_TXD0/OTG_HS_ID/EVENTOUT
PB13/SPI2_SCK/I2S2_CK/USART3_CTS/TIM1_CH1N/CAN2_TX/OTG_HS_ULPI_D6/ETH_RMII_TXD1/ETH_MII_TXD1/EVENTOUT/OTG_HS_VBUS
PB14/SPI2_MISO/TIM1_CH2N/TIM12_CH1/OTG_HS_DM/USART3_RTS/TIM8_CH2N/I2S2ext_SD/EVENTOUT
PB15/SPI2_MOSI/I2S2_SD/TIM1_CH3N/TIM8_CH3N/TIM12_CH2/OTG_HS_DP/EVENTOUT/RTC_REFIN
PA0-X1
PA1-X2
PA2-X3
PA3-X4
PA4-X5
PA5-X6
PA6-X7
PA7-X8
PA8-SDIO_SW
PA9-VBUS
PA10-ID
PA11-DM
PA12-DP
PA13-RED-P5
PA14-GRN-P4
PA15-YEL-P3
PB0-Y11
PB1-Y12
PB2-BOOT1-MMA-INT
PB3-SW-X17
PB4-BLU-P2
PB5-MMA-AVDD
PB6-SCL-X9
PB7-SDA-X10
PB8-Y3
PB9-Y4
PB10-Y9
PB11-Y10
PB12-Y5
PB13-Y6
PB14-Y7
PB15-Y8
3V3
R21 100k
R9 4k7
R8 4k7
R11 4k7
R12 4k7
R20 100k
R14 100k
GND
U1B
STM32F405RG
PC0/OTG_HS_ULPI_STP/EVENTOUT/ADC123_IN10
PC1/ETH_MDC/EVENTOUT/ADC123_IN11
PC2/SPI2_MISO/OTG_HS_ULPI_DIR/ETH_MII_TXD2/I2S2ext_SD/EVENTOUT/ADC123_IN12
PC3/SPI2_MOSI/I2S2_SD/OTG_HS_ULPI_NXT/ETH_MII_TX_CLK/EVENTOUT/ADC123_IN13
PC4/ETH_RMII_RX_D0/ETH_MII_RX_D0/EVENTOUT/ADC12_IN14
PC5/ETH_RMII_RX_D1/ETH_MII_RX_D1/EVENTOUT/ADC12_IN15
PC6/I2S2_MCK/TIM8_CH1/SDIO_D6/USART6_TX/DCMI_D0/TIM3_CH1/EVENTOUT
PC7/I2S3_MCK/TIM8_CH2/SDIO_D7/USART6_RX/DCMI_D1/TIM3_CH2/EVENTOUT
PC8/TIM8_CH3/SDIO_D0/TIM3_CH3/USART6_CK/DCMI_D2/EVENTOUT
PC9/I2S_CKIN/MCO2/TIM8_CH4/SDIO_D1/I2C3_SDA/DCMI_D3/TIM3_CH4/EVENTOUT
PC10/SPI3_SCK/I2S3_CK/UART4_TX/SDIO_D2/DCMI_D8/USART3_TX/EVENTOUT
PC11/UART4_RX/SPI3_MISO/SDIO_D3/DCMI_D4/USART3_RX/I2S3ext_SD/EVENTOUT
PC12/UART5_TX/SDIO_CK/DCMI_D9/SPI3_MOSI/I2S3_SD/USART3_CK/EVENTOUT
PC13/EVENTOUT/RTC_OUT,RTC_TAMP1,RTC_TS
PC14-OSC32_IN(PC14)/EVENTOUT/OSC32_IN
PC15-OSC32_OUT(PC15)/EVENTOUT/OSC32_OUT
PD2/TIM3_ETR/UART5_RX/SDIO_CMD/DCMI_D11/EVENTOUT
PC0-X19
PC1-X20
PC2-X21
PC3-X22
PC4-X11
PC5-X12
PC6-Y1
PC7-Y2
PC8-SDIO_D0
PC9-SDIO_D1
PC10-SDIO_D2
PC11-SDIO_D3
PC12-SDIO_CK
PC13-X18
N1
N2
PD2-SDIO_CMD
R13 100k
Y2 32.768kHz
C12 10p
C11 10P
J8
MicroSD PUSH-PULL
DAT2
CD/DAT3
CMD
VDD
CLK
GND
DAT0
DAT1
SWITCH
SWITVH
MOUNT
MOUNT
MicroSD
PC10-SDIO_D2
PC11-SDIO_D3
PD2-SDIO_CMD
PC12-SDIO_CK
PC8-SDIO_D0
PC9-SDIO_D1
C18 4u7
J10
Battery
VBAT
Q1
CJ2101
D
S
G
V+
R22 100k
D1
MSE1PJ-M3/89A
U4
MIC2005A-1YM5
IN
OUT
EN
FAULT#
GND
B
VBUS
U3
MMA7660FC
RSRVD
N/C
AVDD
AVSS
INT
DVDD
DVSS
SDA
SCL
C15 100n
C14 100n
PB5-MMA-AVDD
PB2-BOOT1-MMA-INT
PB7-SDA-X10
PB6-SCL-X9
PA9-VBUS
PA11-DM
PA12-DP
PA10-ID
R10 560R
R1 22R
R2 22R
R16 560R
J9
USB-mrico
MH1
MH2
MH3
MH4
U1C
STM32F405RG
BOOT0/VPP
NRST
VCAP_1
VCAP_2
PH0-OSC_IN(PH0)/EVENTOUT/OSC_IN
PH1-OSC_OUT(PH1)/EVENTOUT/OSC_OUT
BOOT0-P1
RST#
VCAP1
VCAP2
R3 4K7
C13 100n
R15 100K
C19 2u2
C20 2u2
SW1 RST
Y1 12MHz
C1 10P
C2 10P
N3
N4
PA13-RED-P5
PA14-GRN-P4
PA15-YEL-P3
PB4-BLU-P2
R4 560R
R6 560R
R7 560R
R5 220R
D2 LED-RED
D3 LED-GREEN
D4 LED-YELLOW
D5 LED-BLUE
J6
Y1~8
PC6-Y1
PC7-Y2
PB8-Y3
PB9-Y4
PB12-Y5
PB13-Y6
PB14-Y7
PB15-Y8
VBACKUP
R19 220R
J4 P1~8
BOOT0-P1
PB4-BLU-P2
PA15-YEL-P3
PA14-GRN-P4
PA13-RED-P5
VBACKUPIN
J7
Y9~16
RST#
PB1-Y12
PB0-Y11
PB11-Y10
PB10-Y9
J2
X9~16
PB6-SCL-X9
PB7-SDA-X10
PC4-X11
PC5-X12
RST#
J3 X17~24
PB3-SW-X17
PC13-X18
PC10-X19
PC11-X20
PC1-X20
PC2-X21
PC3-X22
A3V3
J5
P9~10
P9D
P9C
P9B
P9A
P10D
P10C
P10B
P10A
J1
X1~8
PA7-X8
PA6-X7
PA5-X6
PA4-X5
PA3-X4
PA2-X3
PA1-X2
PA0-X1
U2
MCP1703
IN
OUT
GND
C16 2u2
C17 4u7
C8 100n
C7 4u7
C3 100n
C4 100n
C5 100n
C6 100n
L1 1k
C10 4u7
C9 100n
U1D
VBAT
VDD
VSS
VDDA
VSSA
STM32F405RG
PB3-SW-X17
R17 4K7
USR SW
C21 100n
SW2 USR
R23 560R
PWR LED-RED
SWD1 SWD2
SWD
PA13-RED-P5
PA14-GRN-P4
SW3 BOOT0
BOOT0-P1
web:http://www.vcc-gnd.com/
buy:https://vcc-gnd.taobao.com/
Title
MicroPython pyboard v1.1
Size
A3
Number
Revision
Date: 2019/3/9
Sheet of
File: H:\工作\项目\pyboard\YD-Pyboard.SchDoc
Drawn By: