

A

B

C

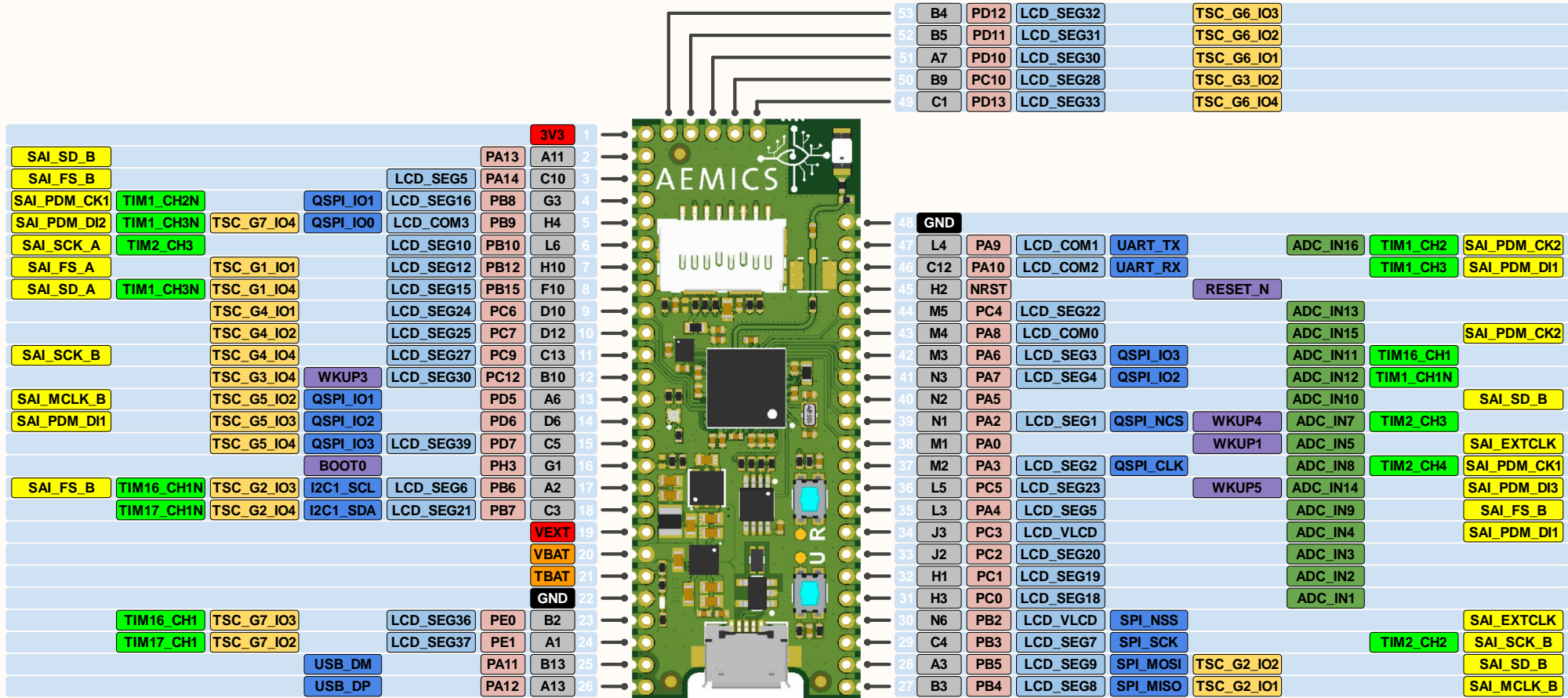
D

A

B

C

D



PIN Types

- Power Pin
- Battery Pin
- GND Pin
- STM32WB55 Physical Pin
- STM32WB55 Pin Name
- Analog Capable Pin
- Serial Capable Pin
- System Function
- PWM Capable Pin
- LCD Capable Pin
- Touch Capable Pin
- Serial Audio Interface Capable Pin

On-Board (Fixed) Features

- L2 PA1 TIM2_CH2 RGB LED - RED Cathode
- C9 PA15 TIM2_CH1 RGB LED - GREEN Cathode
- M6 PB11 TIM2_CH4 RGB LED - BLUE Cathode

- F4 PC13 WKUP2 User Configurable Switch

- E12 PB13 I2C3_SCL Internal I2C Bus - SCL
- E11 PB14 I2C3_SDA Internal I2C Bus - SDA

Internal I2C Bus Connected Devices:
- Temperature Sensor (NXP LM75BDP) @ 1001000 (48h)
- Charge Controller (TI BQ24160Y) @ 1101011 (6Bh)

- L12 PB1 Charge Controller Status
- D4 PD9 Charge Controller Disable

Power Supply & Battery

- 3V3 On-Board 3V3 / 500mA Supply, **OUTPUT ONLY!**
- VEXT External Supply Input, 4.2V - 10V
- VBAT Battery Supply & Charging Pin (Single Cell Lithium-Ion/Polymer)
- TBAT Battery Temperature Sensing Pin

Note:

- Board can also be supplied with power through the USB interface (5V)
- All GPIO pins are 5V tolerant

Low Level Bootloader (DFU)

- GND + PC13 Device Firmware Upgrade

Boot modes and safe boot

- 3V3 + PA0
- 1-3 sec Safe boot, latest firmware
- 4-6 sec Safe boot, previous firmware
- 7-9 sec Safe boot, factory firmware



Pin Overview				
Project Code: AEPYM	Component: 40030000	Assembly Variant: [No Variations]	Date: 19-10-2020	Author(s): SST
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