## Blockdiagramm STM32 Nucleo Training Base-Shield M3 V3.3 suitable for Pinout of L152RE or F103RB echo O PC\_1 PC\_0-GND PC\_00 PC\_02 PC\_04 PC\_06 PC\_08 PC\_10 PC\_12 PC\_14 PC\_03 PC\_05 PC\_07 PC\_09 PC\_11 PC\_13 PC\_15 5V GND HC-SR04 RCW-0001 T **€** 3V3 PC 0 В7 PC 1 С В6 C0 ( ) C4 С В6 20 В7 PC 2 C1 ( ) C5 Grove Connector C2 ( ) C6 GND PC 3 3V3 GND **SV3** сз 🔾 Ст PC 4 **€** GND GND GND StemmaQT **C**3V3 PC\_5 3V3 O 3V3 Connector DC Connectors 20Pin (male) PB\_00 PB\_02 PB\_04 PB\_06 PB\_01 PB 03 С в9 PC 6 PMOD 12 Pin **◯** B8 **€** B8 PB\_05 PB\_07 PC\_7 **⊂** B9 20 Grove Connector PB\_08 PB\_09 PA\_8 PA\_6 PB\_09 PB\_11 PB\_13 PB\_15 5V $PA_7$ PC\_8 GND PB\_10 PB\_12 **C3V3** GND PB\_14 3V3 **€** 3V3 PC\_10 StemmaQT GND GND Connector (B11 PC\_11 PA\_00 PA\_02 PA\_04 PA\_01 PA\_03 PA\_05 ← B10 PC\_12 **€** B11 Grove Connector PC13 H PA\_05 PA\_07 PA\_09 PA\_11 PA\_13 PA\_15 5V GND PA\_06 PA\_08 Normally High GND Nucleo 20 OnBoard on PC\_14 OSC32\_OUT 32.768 kHz **€3V3** PA\_10 PA\_12 PA\_14 PC 15 StemmaQT 3V3 GND Connector PB\_0 B4 B7 10 PB 1 Α4 C8 C7 WIFLESP-01 PB\_2 GND THE STATE OF THE S PB\_10 PB 3 Logic-Analyzer **NUCLEO** PB\_11 UART3 RX PB 4 **L152RE** Wifi PB\_12 RST PB 5 **F130RB** PB\_13 CH PD PB 6 LM75B € PB\_14 GPI00 PB 7 I²C PB\_15 GPIO1 PB 8 BT-HC-05 PB\_9 BLuetooth RxD -PB\_10 PB\_10 -PB\_11 PB\_11 -PB\_12 PB\_12 PB\_13 PB\_14 PB\_15 switchable I<sup>2</sup>C pull-up resistors Frequency Generator ST-LINK\_TX USART TX PA2→ ST-LINK\_RX (A7 **€5**V GND PA 5 PA 6 OnBoard Servo PA 7 тмрз6 🌡 PA 8 Analog S-SCL S-SDA GND PB\_9 WH1602B Display PCF 8574 PA 10 SDA PA\_11 PA\_12 PA\_12 SCL OLED PB\_8 SSD1306 SDA PB\_9 didactic PH\_0 / PD\_0 elements PH\_1/PD\_1 M.Schreger - 8/12/2024