

STM8S105K4T6 Breakout Board (stm8s black)

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The diagram shows the STM8S105K4T6 Breakout Board with various components and pin connections. The board is black with yellow components. The central component is the STM8S105K4T6 microcontroller. The board includes a reset button (RST), a 3V3 voltage regulator, and a 5V voltage regulator. The board also features a 16MHz crystal oscillator, several capacitors, and a 10k pull-up resistor. The board is populated with various components, including a 16MHz crystal oscillator, a 10k pull-up resistor, and a 10k pull-down resistor. The board is populated with various components, including a 16MHz crystal oscillator, a 10k pull-up resistor, and a 10k pull-down resistor.

Pin	Function	Pin	Function
1	NRST	30	PD7
2	PA1	29	PD6
3	PA2	28	PD5
4	PF4	27	PD4
5	PB5	26	PD3
6	PB4	25	PD2
7	PB3	24	PD1
8	PB2	23	PD0
9	PB1	22	PC7
10	PB0	21	PC6
11	PE5	20	PC5
12	PC1	19	PC4
13	PC2	18	PC3
14	3V3	17	5V
15	GND	16	GND

Additional components and connections shown in the diagram include:

- Reset Button (RST):** Connected to NRST (Pin 1).
- 3V3 Voltage Regulator:** Connected to 3V3 (Pin 14) and GND (Pin 15).
- 5V Voltage Regulator:** Connected to 5V (Pin 17) and GND (Pin 16).
- 16MHz Crystal Oscillator:** Connected to PD7 (Pin 30) and PD6 (Pin 29).
- 10k Pull-up Resistor:** Connected to PD7 (Pin 30) and PD6 (Pin 29).
- 10k Pull-down Resistor:** Connected to PD7 (Pin 30) and PD6 (Pin 29).
- 10k Pull-up Resistor:** Connected to PD7 (Pin 30) and PD6 (Pin 29).
- 10k Pull-down Resistor:** Connected to PD7 (Pin 30) and PD6 (Pin 29).