|  |  |  |  |
| --- | --- | --- | --- |
| **uc STM32F051R8T6** | | **Peripherals** | |
| PIN NUMBER | PIN NAME | PIN NUMBER | PIN NAME |
| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | *Keyboard:* | |
| 14  15  16  17  20  21  22  23 | PA0  PA1  PA2  PA3  PA4  PA5  PA6  PA7 | 1  2  3  4  5  6  7  8 | *A*  ( 1,2,3,6)  *B (9,4,5,8)*  *C (0, <, 7, >)*  *D (P,M,ESC) E (1,9,0,P) F (3,5,7,ESC) G (2,4,<,M) H (6,8,>)* |
| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | *nRF24L01+:* | |
| TR1  VCC  37  33  34  35  36  38 | TR1 (PNP-EMITER)  VCC (3,3V)  PC6  PB12(SPI2\_NSS)  PB13(SPI2\_SCK)  PB15(SPI2\_MOSI)  PB14(SPI2\_MISO)  PC7 | 1  2  3  4  5  6  7  8 | *GND*  *VCC*  *CE*  *CSN*  *SCK*  *MOSI*  *MISO*  *IRQ* |
| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | *AT24C64D* | |
| GND  GND  GND  GND  48  47  45  VCC | GND  GND  GND  GND  PF7(I2C2\_SDA) –PullUp 4,7kom  PF6(I2C2\_SCL) –PullUp 4,7kom  PA12-(VCC-disable,GND-enable)  VCC (3,3V) | 1  2  3  4  5  6  7  8 | *A0*  *A1*  *A2*  *GND*  *SDA*  *SCL*  *WP*  *VCC* |
| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | *LEDS* | |
| 44  43 | PA11  PA10 | 1  2 | *GREEN*  *RED* |
| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | *UART\_DEBUG\_MODE* | |
| 58  59  GND | PB6(USART1\_TX)  PB7(USART1\_RX)  GND | 1  2  3 | *1 (GOLDPIN\_1)*  *2*  *3* |
| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | *ST\_LINK* | |
| 46  49  7  55  GND | PA13(SWDIO)  PA14(SWCLK)  NRST(ACTIVE\_LOW,pullUp-3V)  PB3 (SWO)  GND | 1  2  3  4  5 | *1 (GOLDPIN\_2)*  *2*  *3*  *4*  *5* |
| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | *POWER\_SUPPLY* | |
| 13,1,32,64  12,31,63 | VDDA,VBAT,VDD,VDD  VSSA,VSS,VSS | VCC(3,3)  GND | *1*  *2* |
| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | *TRANSISTORS* | |
| 39 | PC8 | 1-G | *TR1* |
| 40 | PC9 – FOR RECEIVER ONLY!!! | 1-G | *TR2* |
| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | |  | |
|  |  |  |  |