

| 30.06.2024 | | | Tang Nano 9k FPGA Base board | | | | Pascal G. | | |
|--|----------|-----|------------------------------|--------|------------|----------|---------------------------|--------|------|
| Feature | I/O NAME | PIN | INFO | | PIN | I/O NAME | Feature | | |
| PMOD 1 | | | 3.3V | 3.3V | PMOD 2 | | | | |
| 1.1 | IOB33A | 39 | Shared with TF CARD | | 28 | IOB11B | 1.1 | | |
| 1.2 | IOB29B | 36 | | | 27 | IOB11A | 1.2 | | |
| 1.3 | IOB31A | 37 | | | 26 | IOB8B | 1.3 | | |
| 1.4 | IOB31B | 38 | | | 25 | IOB8A | 1.4 | | |
| 1.5 | IOR24A | 49 | | | 34 | IOB23B | 1.5 | | |
| 1.6 | IOR24B | 48 | | | 33 | IOB23A | 1.6 | | |
| 1.7 | IOT37B | 76 | | | 30 | IOB13B | 1.7 | | |
| 1.8 | IOT37A | 77 | | | 29 | IOB13A | 1.8 | | |
| PMOD 3 | | | 3.3V | 3.3V | PMOD 4 | | | | |
| 1.1 | IOB41B | 42 | | | 32 | IOB15B | 1.1 | | |
| 1.2 | IOB41A | 41 | | | 31 | IOB15A | 1.2 | | |
| 1.3 | IOB29A | 35 | | | 57 | IOR13A | 1.3 | | |
| 1.4 | IOB33B | 40 | | | 56 | IOR14A | 1.4 | | |
| 1.5 | IOR14B | 55 | | | SerialRGB | | | | |
| 1.6 | IOR15A | 54 | | | 63 | IOR5A | RGBLED | | |
| 1.7 | IOR15B | 53 | | | JOYSTICK | | | | |
| 1.8 | IOR17B | 51 | | | 83 | IOT10B | Center | | |
| ENCODER | | | 1.8V | 1.8V | 82 | IOT11A | Left | | |
| A | IOT10A | 84 | | | 81 | IOT11B | Up | | |
| B | IOT8B | 85 | | | 80 | IOT12A | Right | | |
| Center | IOT8A | 86 | | | 79 | IOT12B | Down | | |
| LEDs | | | 1.8V | 1.8V | SPI LCD | | | | |
| LED1 | IOL15A | 10 | Shared with PMOD 1 | 3.3V | 49 | IOR24A | R/S | | |
| LED2 | IOL16B | 11 | | | 77 | IOT37A | MOSI | | |
| LED3 | IOL21B | 13 | | | 76 | IOT37B | SCLK | | |
| LED4 | IOL22B | 14 | | | 48 | IOR24B | !CS | | |
| LED5 | IOL25B | 15 | | | 47 | IOB43B | !Reset | | |
| LED6 | IOL26B | 16 | | | TF CARD | | | | |
| BUTTONS | | | 1.8V | 1.8V | 38 | IOB31B | !CS | | |
| S1 | IOL5A | 4 | Shared with PMOD 1 | 3.3V | 37 | IOB31A | MOSI | | |
| S2 | IOT2A | 3 | | | 36 | IOB29B | SCLK | | |
| SPI FLASH | | | | | 3.3V | 3.3V | 39 | IOB33A | MISO |
| MOSI | IOR11B | 61 | | | XTAL Clock | | | | |
| MISO | IOR11A | 62 | 52 | IOR17A | 27 MHz | | | | |
| SCLK | IOR12B | 59 | PC UART | | | | | | |
| !CS | IOR12A | 60 | 17 | IOB2A | FPGA-TX | | | | |
| Note: All Buttons, Joysticks, Encoders or non-RGB LEDs are "Active-Low"! | | | 18 | IOB2B | FPGA-RX | | | | |