30.06.2024	Tang Nano 9k FPGA Base board					Pascal G.
Feature	**I/O NAME**	**PIN**	**INFO**	**PIN**	**I/O NAME**	**Feature**

PMOD 1 / PMOD 2

Feature	I/O NAME	PIN	INFO	PIN	I/O NAME	Feature
PMOD 1					**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	Shared with SPI LCD	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 / PMOD 4

Feature	I/O NAME	PIN	PIN	I/O NAME	Feature
PMOD 3				**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			
1.6	IOR15A	54			
1.7	IOR15B	53			
1.8	IOR17B	51			

SerialRGB

PIN	I/O NAME	Feature
63	IOR5A	RGBLED

ENCODER

Feature	I/O NAME	PIN
A	IOT10A	84
B	IOT8B	85
Center	IOT8A	86

JOYSTICK

PIN	I/O NAME	Feature
83	IOT10B	Center
82	IOT11A	Left
81	IOT11B	Up
80	IOT12A	Right
79	IOT12B	Down

LEDs

Feature	I/O NAME	PIN
LED1	IOL15A	10
LED2	IOL16B	11
LED3	IOL21B	13
LED4	IOL22B	14
LED5	IOL25B	15
LED6	IOL26B	16

SPI LCD (Shared with PMOD 1)

INFO	PIN	I/O NAME	Feature
Shared with PMOD 1	49	IOR24A	R/S
	77	IOT37A	MOSI
	76	IOT37B	SCLK
	48	IOR24B	!CS
	47	IOB43B	!Reset

BUTTONS

Feature	I/O NAME	PIN
S1	IOT2A	3
S2	IOL5A	4

TF CARD (Shared with PMOD 1)

INFO	PIN	I/O NAME	Feature
Shared with PMOD 1	38	IOB31B	!CS
	37	IOB31A	MOSI
	36	IOB29B	SCLK
	39	IOB33A	MISO

SPI FLASH

Feature	I/O NAME	PIN
MOSI	IOR11B	61
MISO	IOR11A	62
SCLK	IOR12B	59
!CS	IOR12A	60

XTAL Clock

PIN	I/O NAME	Feature
52	IOR17A	27 MHz

PC UART

PIN	I/O NAME	Feature
17	IOB2A	FPGA-TX
18	IOB2B	FPGA-RX

Note: All Buttons, Joysticks, Encoders or non-RGB LEDs are "Active-Low"!