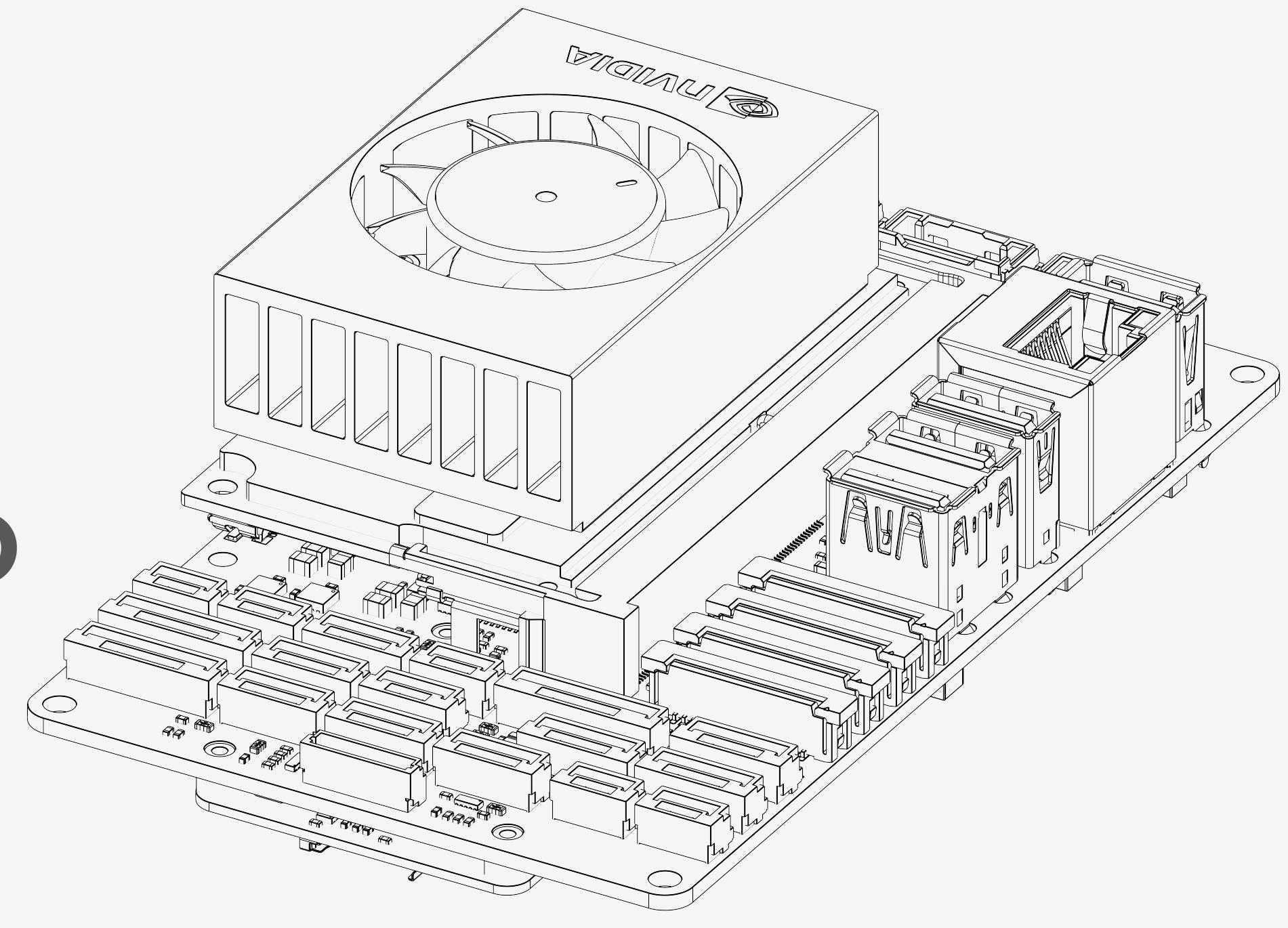




<https://arkelectron.com>



ARK JETSON PAB CARRIER PINOUT BOARD REFERENCE



POWER1

PIN	SIGNAL	VOLT
1	VBRICK1	+5.0V
2	VBRICK1	+5.0V
3	I2C1_SCL_PWR_EXT	+3.3V
4	I2C1_SDA_PWR_EXT	+3.3V
5	GND	GND
6	GND	GND

POWER2

PIN	SIGNAL	VOLT
1	VBRICK2	+5.0V
2	VBRICK2	+5.0V
3	I2C2_SCL_BASE_PWR_EXT	+3.3V
4	I2C2_SDA_BASE_PWR_EXT	+3.3V
5	GND	GND
6	GND	GND

POWER3

PIN	SIGNAL	VOLT
1	VBRICK3	+5.0V
2	VBRICK3	+5.0V
3	I2C3_SCL_PWR_EXT	+3.3V
4	I2C3_SDA_PWR_EXT	+3.3V
5	GND	GND
6	GND	GND

TELEM1

PIN	SIGNAL	VOLT
1	VDD_5V_HIPOWER	+5.0V
2	UART7_TX_TELEM1_EXT	+3.3V
3	UART7_RX_TELEM1_EXT	+3.3V
4	UART7_CTS_TELEM1_EXT	+3.3V
5	UART7_RTS_TELEM1_EXT	+3.3V
6	GND	GND

TELEM3

PIN	SIGNAL	VOLT
1	VDD_5V_HIPOWER	+5.0V
2	USART2_TX_TELEM3_EXT	+3.3V
3	USART2_RX_TELEM3_EXT	+3.3V
4	USART2_CTS_TELEM3_EXT	+3.3V
5	USART2_RTS_TELEM3_EXT	+3.3V
6	GND	GND

CAN1

PIN	SIGNAL	VOLT
1	VDD_5V_PERIPH	+5.0V
2	CAN1_H	+3.3V
3	CAN1_L	+3.3V
4	GND	GND

CAN2

PIN	SIGNAL	VOLT
1	VDD_5V_PERIPH	+5.0V
2	CAN2_H	+3.3V
3	CAN2_L	+3.3V
4	GND	GND

I2C3

PIN	SIGNAL	VOLT
1	VDD_5V_PERIPH	+5.0V
2	I2C3_SCL_EXT	+3.3V
3	I2C3_SDA_EXT	+3.3V
4	GND	GND

GPS1

PIN	SIGNAL	VOLT
1	VDD_5V_PERIPH	+5.0V
2	UART1_TX_GPS1_EXT	+3.3V
3	UART1_RX_GPS1_EXT	+3.3V
4	I2C1_SCL_GPS1_EXT	+3.3V
5	I2C1_SDA_GPS1_EXT	+3.3V
6	NSAFETY_SWITCH_IN_EXT	+3.3V
7	NSAFETY_SWITCH_LED_OUT_EXT	+3.3V
8	3V3_FMU	+3.3V

GPS2

PIN	SIGNAL	VOLT
1	VDD_5V_HIPOWER	+5.0V
2	UART8_TX_GPS2_EXT	+3.3V
3	UART8_RX_GPS2_EXT	+3.3V
4	I2C2_SCL_BASE_GPS2_EXT	+3.3V
5	I2C2_SDA_BASE_GPS2_EXT	+3.3V
6	GND	GND

SPI6

PIN	SIGNAL	VOLT
1	VDD_5V_PERIPH	+5.0V
2	SPI6_SCK_EXT	+3.3V
3	SPI6_MISO_EXT	+3.3V
4	SPI6_MOSI_EXT	+3.3V
5	SPI6_NCS1_EXT	+3.3V
6	SPI6_NCS2_EXT	+3.3V
7	SPI6_NSYNC_EXT	+3.3V
8	SPI6_DRDY1_EXT	+3.3V
9	SPI6_DRDY2_EXT	+3.3V
10	SPI6_NRESET_EXT	+3.3V
11	GND	GND

FC DEBUG

PIN	SIGNAL	VOLT
1	3V3_FMU	+3.3V
2	USART3_TX_DEBUG	+3.3V
3	USART3_RX_DEBUG_EXT	+3.3V
4	FMU_SWDIO	+3.3V
5	FMU_SWCLK	+3.3V
6	SPI1_SCK_EXTERNAL1	+3.3V
7	NFC_GPIO	+3.3V
8	PD15	+3.3V
9	FMU_NRST	+3.3V
10	GND	+3.3V

PWM

PIN	SIGNAL	VOLT
1	VDD SERVO (NO CONNECT)	NO CONNECT
2	FMU_CH1_EXT	+3.3V
3	FMU_CH2_EXT	+3.3V
4	FMU_CH3_EXT	+3.3V
5	FMU_CH4_EXT	+3.3V
6	FMU_CH5_EXT	+3.3V
7	FMU_CH6_EXT	+3.3V
8	FMU_CH7_EXT	+3.3V
9	FMU_CH8_EXT	+3.3V
10	GND	GND

RC

PIN	SIGNAL	VOLT
1	VDD_5V_SBUS_RC	+5.0V
2	RX_SBUS_IN_EXT	+3.3V
3	USART6_TX_RC_OUTPUT_EXT	+3.3V
4	VDD_3V3_SPEKTRUM	+3.3V
5	GND	+3.3V

ADIO

PIN	SIGNAL	VOLT
1	VDD_5V_PERIPH	+5.0V
2	FMU_CAP_EXT	+3.3V
3	NARMED_EXT	+3.3V
4	ADC1_3V3_EXT	+3.3V
5	ADC1_6V6_EXT	+6.6V
6	GND	GND

JETSON CS10