

Frontpanel header pinout

Signal	Pin Nr.	Pin Nr.	Signal
Power Button	1	2	Power LED +
Power Button	3	4	Power LED -
+5 V	5	6	+5 V
Jetson Frontpanel USB.D_N	7	8	SMARC Frontpanel USB.D_N
Jetson Frontpanel USB.D_P	9	10	SMARC Frontpanel USB.D_P
GND	11	12	GND
n/c	13	14	IO_EXPANDER Interrupt
ESP32 I2C SCL	15	16	+3.3 V
ESP32 I2C SDA	17	18	ESP_EN
Frontpanel_IO1	19	20	Frontpanel_IO2

Expansion header pinout

Bold = Default configuration, can be changed via solder jumpers

Signal	Pin Nr.	Pin Nr.	Signal
3.3 V	1	2	5 V
Jetson I2C 0 SDA , SMARC I2C GP SDA, SMARC GPIO 1	3	4	5 V
Jetson I2C 0 SCL , SMARC I2C GP SCL, SMARC GPIO 0	5	6	GND
SMARC GPIO 2	7	8	Jetson UART 0 TXD , SMARC UART 1 TXD
GND	9	10	Jetson UART 0 RXD , SMARC UART 1 RXD, Jetson GPIO 0
Jetson UART 0 RTS , SMARC UART 1 RTS, SMARC GPIO 3	11	12	Jetson I2S SCLK , SMARC I2S SCLK, Jetson GPIO 2
SMARC GPIO 4	13	14	GND
SMARC GPIO 8	15	16	Jetson GPIO 3
3.3 V	17	18	Jetson GPIO 5
Jetson SPI 0 MOSI , SMARC SPI 0 MOSI	19	20	GND
Jetson SPI 0 MISO , SMARC SPI 0 MISO	21	22	Jetson GPIO 6
Jetson SPI 0 SCK , SMARC SPI 0 SCK	23	24	Jetson SPI 0 CS0 , SMARC SPI 0 CS0, Jetson GPIO 9
GND	25	26	Jetson SPI 0 CS1 , Jetson GPIO 10
SMARC GPIO 9	27	28	Jetson GPIO 11
SMARC GPIO 10	29	30	GND
SMARC GPIO 11	31	32	Jetson GPIO 13
SMARC GPIO 12	33	34	GND
Jetson I2S FS , SMARC I2S FS	35	36	Jetson UART 0 CTS , SMARC UART 1 CTS, Jetson GPIO 12
SMARC GPIO 13	37	38	Jetson I2S DIN , SMARC I2S DIN
GND	39	40	Jetson I2S DOUT , SMARC I2S DOUT

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