

Legend:

Power
Ground

Power Input
Power Output

GPIO Digital External
Analog External

Main Part

Secondary Part

Internal Component

Other Pins (Reset, System Control, Debugging)

I2C
SPI

UART/USART
Other SERIAL

Analog
PWM/Timer

LED
RGB LED

- CIP0/COPI have previously been referred to as MISO/MOSI
- JSPI and JDIGITAL SPI share the SPI2 MCU peripheral (Can not be used simultaneously as SPI)
- WARNING** A0 and A1 are not 5V tolerant
- WARNING** JCTL pins are 1.8V logic only



SKU code: ABX00162-ABX00173
Full Pinout - Page 1 of 4
Last update: 30 Sept, 2025

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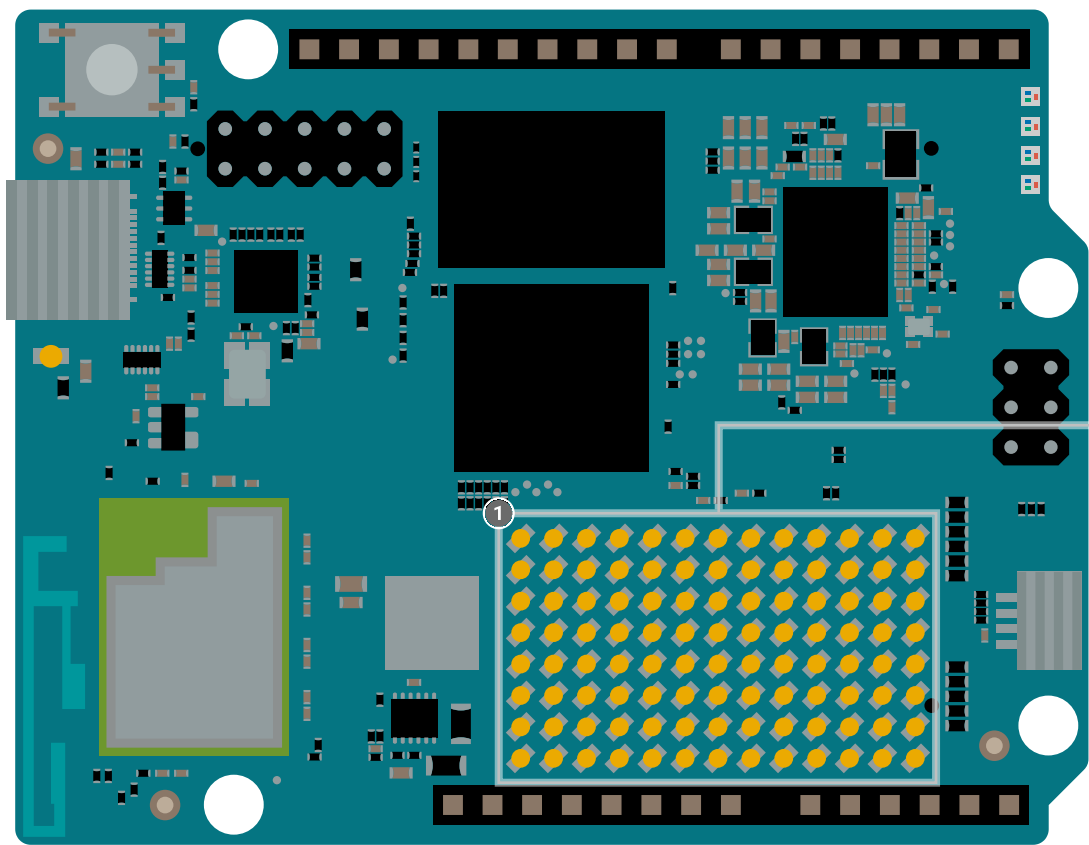
WARNING!

Advanced Section

The following information is for advanced use only and
may not be officially supported by Arduino software



LED Matrix 8x13



1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49	50	51	52
53	54	55	56	57	58	59	60	61	62	63	64	65
66	67	68	69	70	71	72	73	74	75	76	77	78
79	80	81	82	83	84	85	86	87	88	89	90	91
92	93	94	95	96	97	98	99	100	101	102	103	104

Legend :

- Power

Ground
- IN

Power Input

OUT

Power Output

- GPIO Digital External

Analog External

Main Part

Secondary Part

Internal Component

Other Pins (Reset, System Control, Debugging)

- I2C

SPI

UART/USART

Other SERIAL

Analog

PWM/Timer
- D

Default

D

Default

D

Default

D

Default

D

Default

- LED

RGB LED



SKU code: ABX00162-ABX00173
Full Pinout - Page 3 of 4
Last update: 2 Sept, 2025

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JMISC

PD2	MCU_SDMMC1_CMD	2	1	MCU_PSSI_D0	PC6
PE2	MCU_TRACE_CLK	4	3	MCU_PSSI_D1	PC7
PE3	MCU_TRACE_D0	6	5	MCU_PSSI_D2	PC8
PE5	MCU_TRACE_D2	8	7	MCU_PSSI_D3	PC9
PE6	MCU_TRACE_D3	10	9	MCU_PSSI_D4	PE4
PE7	MCU_PE7	12	11	MCU_PSSI_D5	PI4
PE8	MCU_PE8	14	13	MCU_PSSI_D6	PI6
PF14	MCU_I2C4_SCL	16	15	MCU_PSSI_D7	PI7
PF15	MCU_I2C4_SDA	18	17	MCU_PSSI_PDCK	PD9
PA3	MCU_OPAMP1_VOUT	20	19	MCU_PSSI_RDY	PI5
PA0	MCU_OPAMP1_VINP	22	21	MCU_PSSI_DE	PD8
PA1	MCU_OPAMP1_VINM	24	23	MCU_MCO	PA8
	GND	26	25	MCU_CRS_SYNC	PA10
	EAR_P_R	28	27	GND	
	EAR_M_R	30	29	MIC2_INP	
	LINEOUT_P	32	31	MIC2_INM	
	LINEOUT_M	34	33	MIC2_BIAS	
	HPH_L	36	35	GND	
	HPH_R	38	37	SOC_GPIO_0_SE0	
	HPH_REF	40	39	SOC_GPIO_1_SE0	
	HS_DET	42	41	SOC_GPIO_2_SE0	
	GND	44	43	SOC_GPIO_3_SE0	
	SOC_GPIO_98	46	45	SOC_GPIO_86_SE0	
	SOC_GPIO_99	48	47	SOC_GPIO_82_SE0	
	SOC_GPIO_100	50	49	SOC_GPIO_18	
	SOC_GPIO_101	52	51	SOC_GPIO_28	
	+5V USB	54	53	OUT	+3V3
	+5V USB	56	55	OUT	+3V3
	GND	58	57	OUT	+1V8
	VBAT	60	59	IN	VCOIN

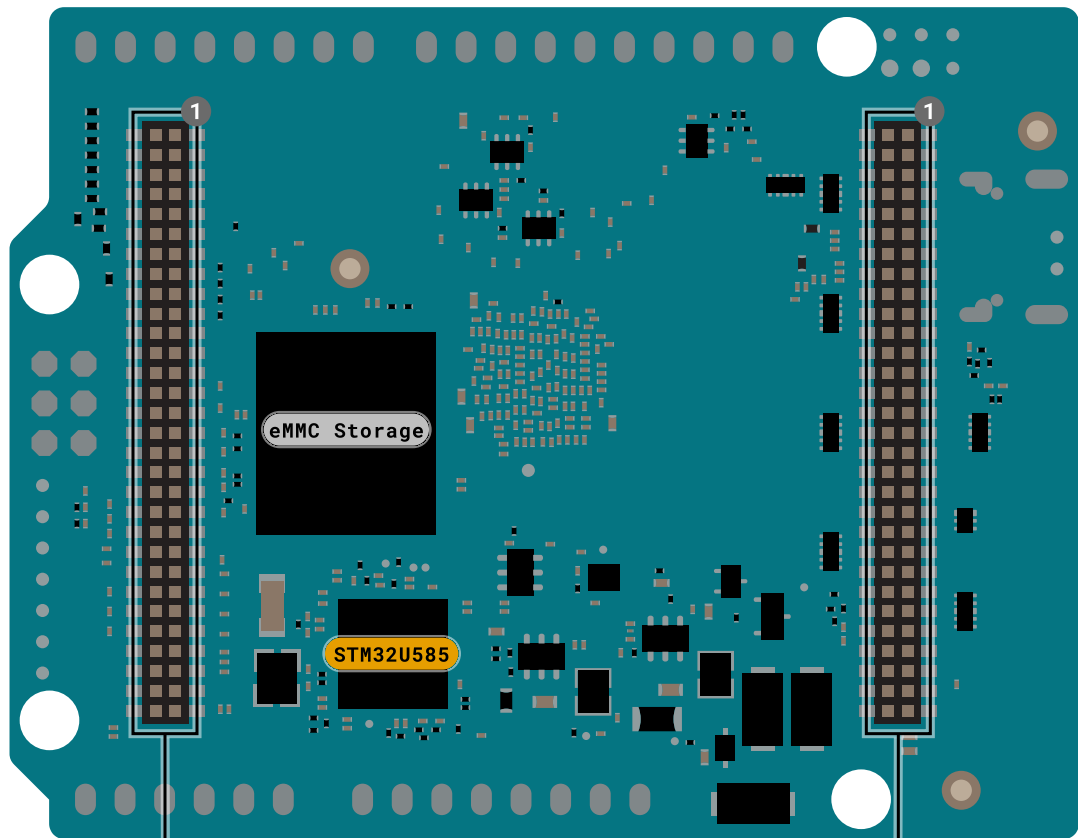
! These pins can not be used as regular GPIOs.

MCU Pins

3.3V Logic

MPU Pins

1.8V Logic



JMEDIA

	GND	2	1	GND	
	MIPI_DSI0_L1_P	4	3	MIPI_DSI0_CLK_M	
	MIPI_DSI0_L1_M	6	5	MIPI_DSI0_CLK_P	
	GND	8	7	GND	
	MIPI_DSI0_L0_P	10	9	MIPI_DSI0_L2_M	
	MIPI_DSI0_L0_M	12	11	MIPI_DSI0_L2_P	
	GND	14	13	GND	
GPIO_20	SOC_CAM_MCLK0	16	15	MIPI_DSI0_L3_M	
GPIO_21	SOC_CAM_MCLK1	18	17	MIPI_DSI0_L3_P	
	GND	20	19	GND	
GPIO_29	CCI_I2C_SDA1	22	21	CSI0_C0_LN0_M	
GPIO_30	CCI_I2C_SCL1	24	23	CSI0_B0_LN0_P	
	GND	26	25	GND	
	CSI1_B2_LN3_P	28	27	CSI0_B1_LN1_M	
	CSI1_C2_LN3_M	30	29	CSI0_A1_LN1_P	
	GND	32	31	GND	
	CSI1_C1_LN2_P	34	33	CSI0_A0_CLK_M	
	CSI1_A2_LN2_M	36	35	CSI0_NC_CLK_P	
	GND	38	37	GND	
	CSI1_NC_CLK_P	40	39	CSI0_A2_LN2_M	
	CSI1_A0_CLK_M	42	41	CSI0_C1_LN2_P	
	GND	44	43	GND	
	CSI1_A1_LN1_P	46	45	CSI0_C2_LN3_M	
	CSI1_B1_LN1_M	48	47	CSI0_B2_LN3_P	
	GND	50	49	GND	
	CSI1_B0_LN0_P	52	51	CCI_I2C_SCL0	GPIO_23
	CSI1_C0_LN0_M	54	53	CCI_I2C_SDA0	GPIO_22
	GND	56	55	GND	
	+3V3	58	57	IN	VIN
	+3V3	60	59	IN	VIN

! These pins can not be used as regular GPIOs.

Legend :

Power Power Input
Ground Power Output

GPIO Digital External
Analog External
Main Part
Secondary Part
Internal Component
Other Pins (Reset, System Control, Debugging)

I2C SPI UART/USART Other SERIAL Analog Audio PWM/Timer
Default Default Default Default

LED RGB LED

WARNING Be aware of the pins logic level.
Analog Audio functionality is provided by the PMIC
CIPO/COPI have previously been referred ot as MISO/MOSI



SKU code: ABX00162-ABX00173
Full Pinout - Page 4 of 4
Last update: 2 Sept, 2025

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