




















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  Default 
SPI  Default 
UART/USART  Default 
Other SERIAL  Default 
Analog  Default 
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
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Last update: 19 Dec, 2025

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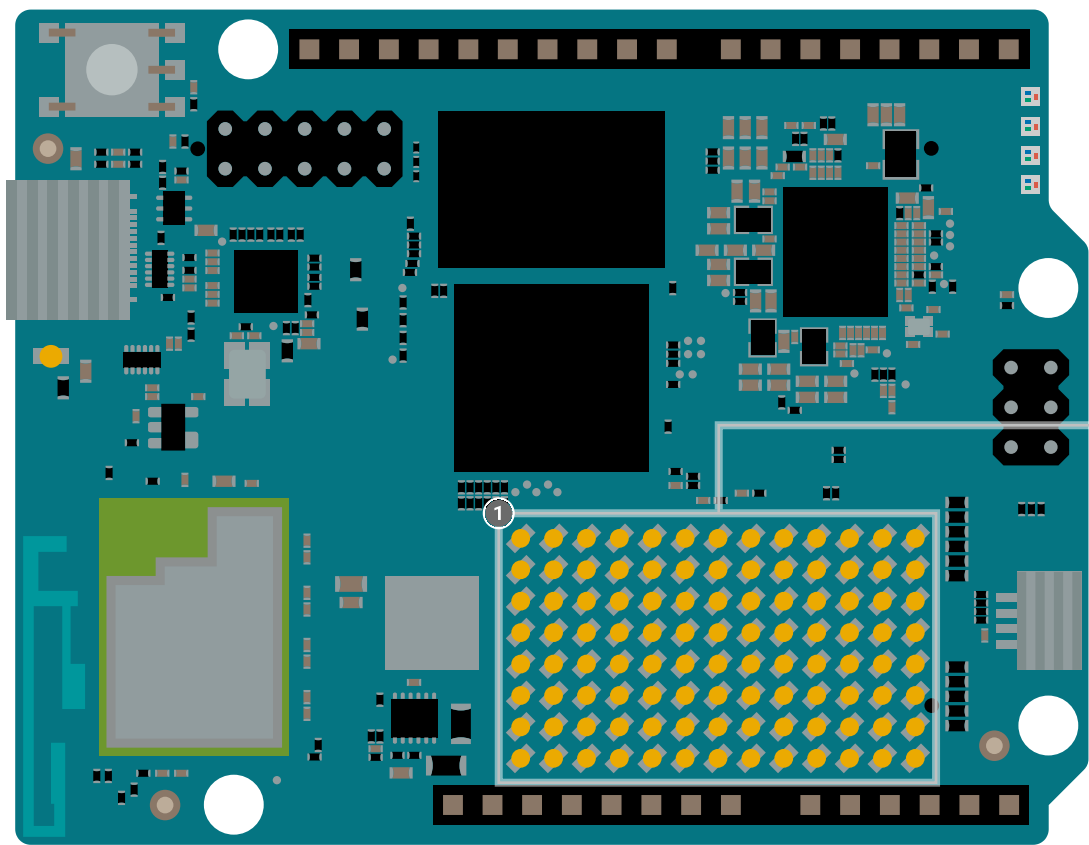
WARNING!

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



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JMISC

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

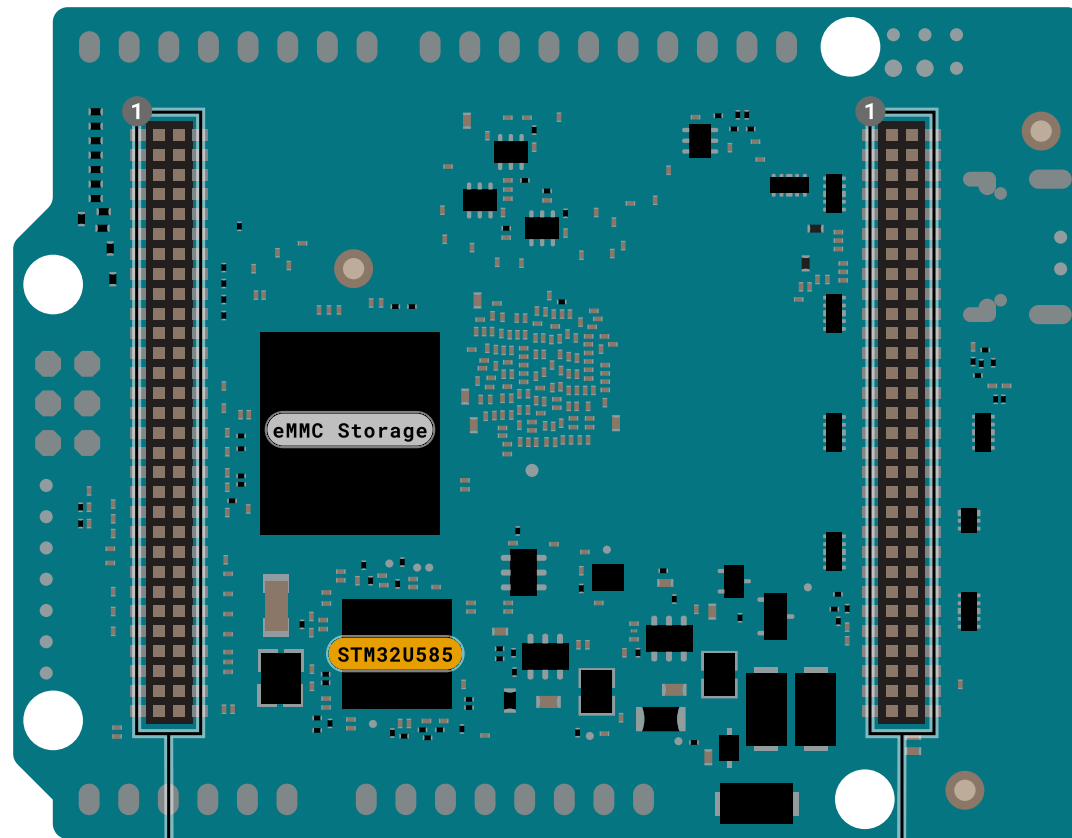
! These pins can not be used as regular GPIOs.

MCU Pins

3.3V Logic

MPU Pins

1.8V Logic



JMEDIA

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

! These pins can not be used as regular GPIOs.

Legend :

Power Power Input
Ground Power Output

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Analog External

Main Part

Secondary Part

Internal Component

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I2C Default

SPI Default

UART/USART Default

Other SERIAL

Analog Audio Default

PWM/Timer

LED

RGB LED

WARNING Be aware of the pins logic level.

Analog Audio functionality is provided by the PMIC

CIP0/COPI have previously been referred to as MISO/MOSI



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