

Legend:	
■ Power	■ Power Input
■ Ground	■ Power Output
■ Main Part	■ GPIO Digital External
■ Secondary Part	■ Analog External
■ Internal Component	■ SPI
■ Other Pins (Reset, System Control, Debugging)	■ I2C
	■ Default
	■ Default
	■ Default
	■ LED
	■ RGB LED
	■ Analog
	■ PWM/Timer

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

Connected to the Microprocessor
/sys/class/leds/

Connected to the Microcontroller

- CIPO/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



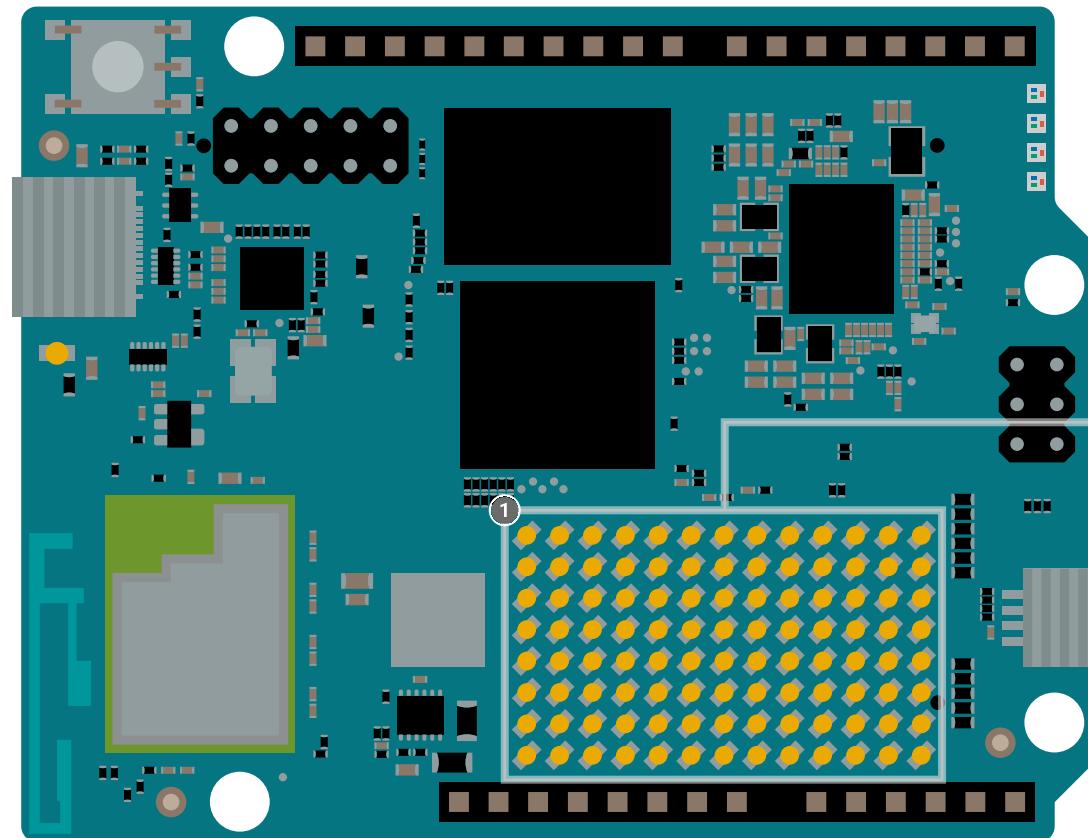
WARNING !

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	IN Power Input	GPIO Digital External
Ground	OUT Power Output	Analog External
		Main Part
		Secondary Part
		Internal Component
		Other Pins (Reset, System Control, Debugging)

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

LED
RGB LED



SKU code: ABX00162-ABX00173
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Last update: 19 Dec, 2025

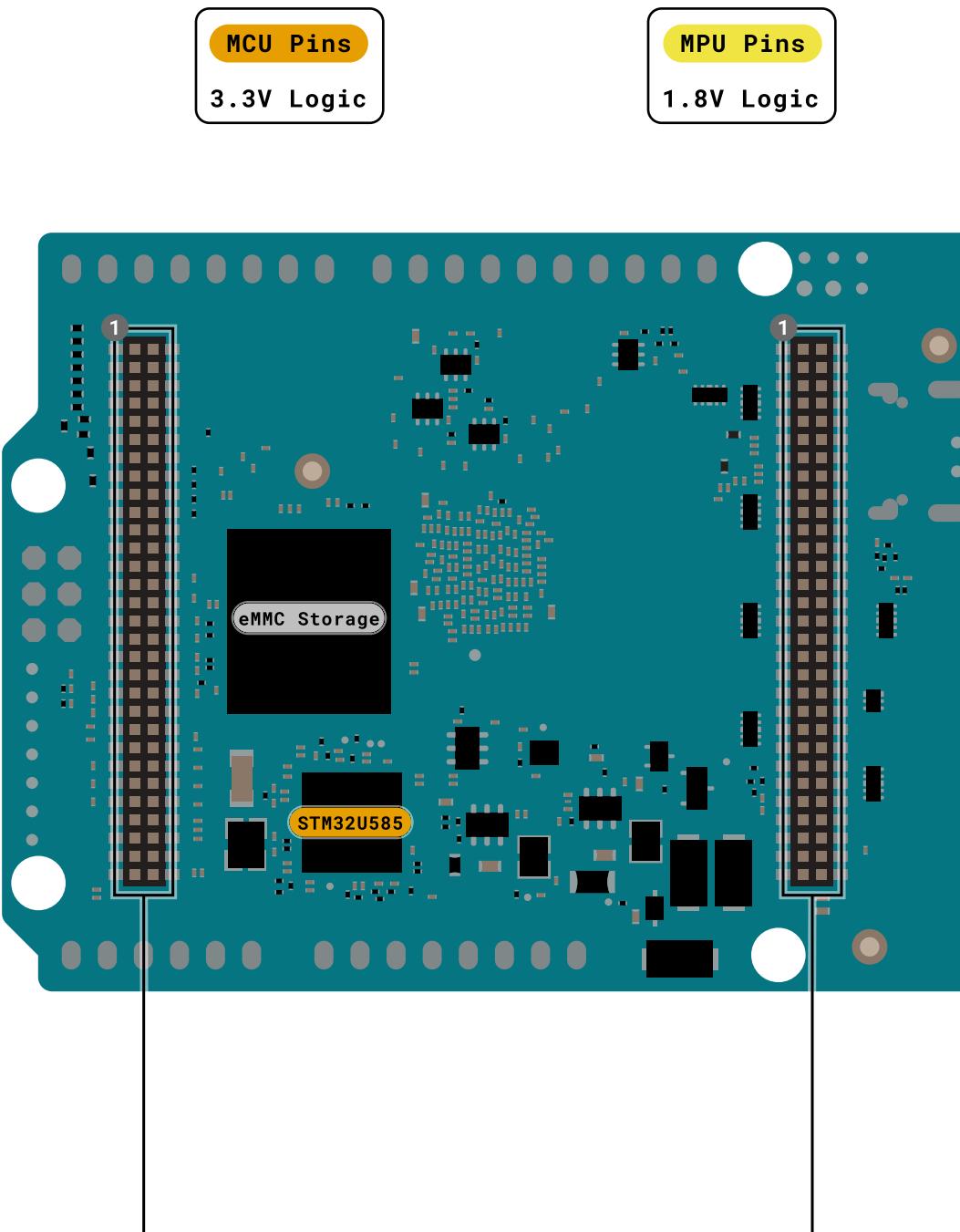
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JMISC

PC6	MCU_PSSI_D0	1	MCU_SDMMC1_CMD	PD2
PC7	MCU_PSSI_D1	3	MCU_TRACE_CLK	PE2
PC8	MCU_PSSI_D2	5	MCU_TRACE_D0	PE3
PC9	MCU_PSSI_D3	7	MCU_TRACE_D2	PE5
PE4	MCU_PSSI_D4	9	MCU_TRACE_D3	PE6
PI4	MCU_PSSI_D5	11	MCU_PE7	PE7
PI6	MCU_PSSI_D6	13	MCU_PE8	PE8
PI7	MCU_PSSI_D7	15	MCU_I2C4_SCL	PF14
PD9	MCU_PSSI_PDCK	17	MCU_I2C4_SDA	PF15
PI5	MCU_PSSI_RDY	19	MCU_OPAMP1_VOUT	PA3
PD8	MCU_PSSI_DE	21	MCU_OPAMP1_VINP	PA8
PA8	MCU_MCO	23	MCU_OPAMP1_VINM	PA1
PA10	MCU_CRS_SYNC	25	GND	
		27	EAR_P_R	
	MIC2_INP	29	EAR_M_R	
	MIC2_INM	31	LINEOUT_P	
	MIC2_BIAS	33	LINEOUT_M	
	GND	35	HPH_L	
	SOC_GPIO_0_SE0	37	HPH_R	
	SOC_GPIO_1_SE0	39	HPH_REF	
	SOC_GPIO_2_SE0	41	HS_DET	
	SOC_GPIO_3_SE0	43	GND	
	SOC_GPIO_86_SE0	45	SOC_GPIO_98	
	SOC_GPIO_82_SE0	47	SOC_GPIO_99	
	SOC_GPIO_18	49	SOC_GPIO_100	
	SOC_GPIO_28	51	SOC_GPIO_101	
	+3V3 OUT	53	OUT	+5V USB
	+3V3 OUT	55	OUT	+5V USB
	+1V8 OUT	57	OUT	GND
	VCOIN IN	59	IN	VBAT



! These pins can not be used as regular GPIOs.

! These pins can not be used as regular GPIOs.

Legend:

■ Power (IN) Power Input
 ■ Ground (OUT) Power Output

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

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

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 to as MISO/MOSI



SKU code: ABX00162-ABX00173
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