HM01B0-PIN

	GND	1
	+2V8	2
	GND	3

HM01B0-OUT

	CAMERA_TRIG	TRIG	4
J1-18 CAM_CK_P		FLVD	5
J2-22 CAM_HS		LVLD	6
J1-46 I2C3-SCL		SCL	7
J1-44 I2C3-SDA		SDA	8
J2-48 GPIO_1	CAMERA_INT	INT	9
		GND	10
		+2V8	11
		+1V5	12
		GND	13
	CAMERA_CLK	MCLK	14
		GND	15
J2-20 CAM_CK_N		PCLK	16
J2-16 CAM_D0_N		D0	17
J2-14 CAM_D0_P		D1	18
J2-12 CAM_D1_N		D2	19
J2-10 CAM_D1_P		D3	20
J2-8 CAM_D2_N		D4	21
J2-6 CAM_D2_P		D5	22
J2-4 CAM_D3_N		D6	23
J2-2 CAM_D3_P		D7	24

MP34DT06JTR-1

1	VDD		+3V3
2	LR		GND
3	CLK	CK	J1-66 PDM-CK
4	DOUT	D0	J1-68 PDM-D0
5	GND		

MP34DT06JTR-2

1	VDD		+3V3
2	LR		+3V3
3	CLK	CK	J1-66 PDM-CK
4	DOUT	D0	J1-68 PDM-D0
5	GND		

Legend

- Ground
- Power
- LED
- Internal Pin
- SWD Pin
- Digital Pin
- Analog Pin
- Other Pin
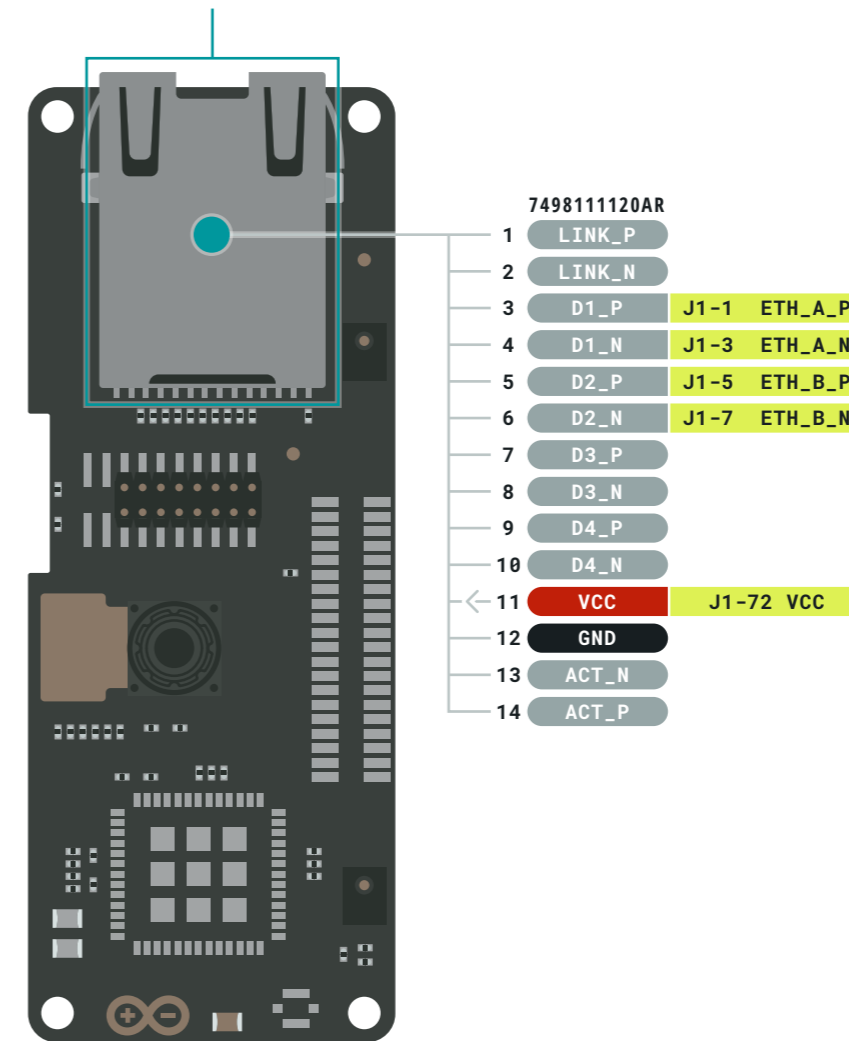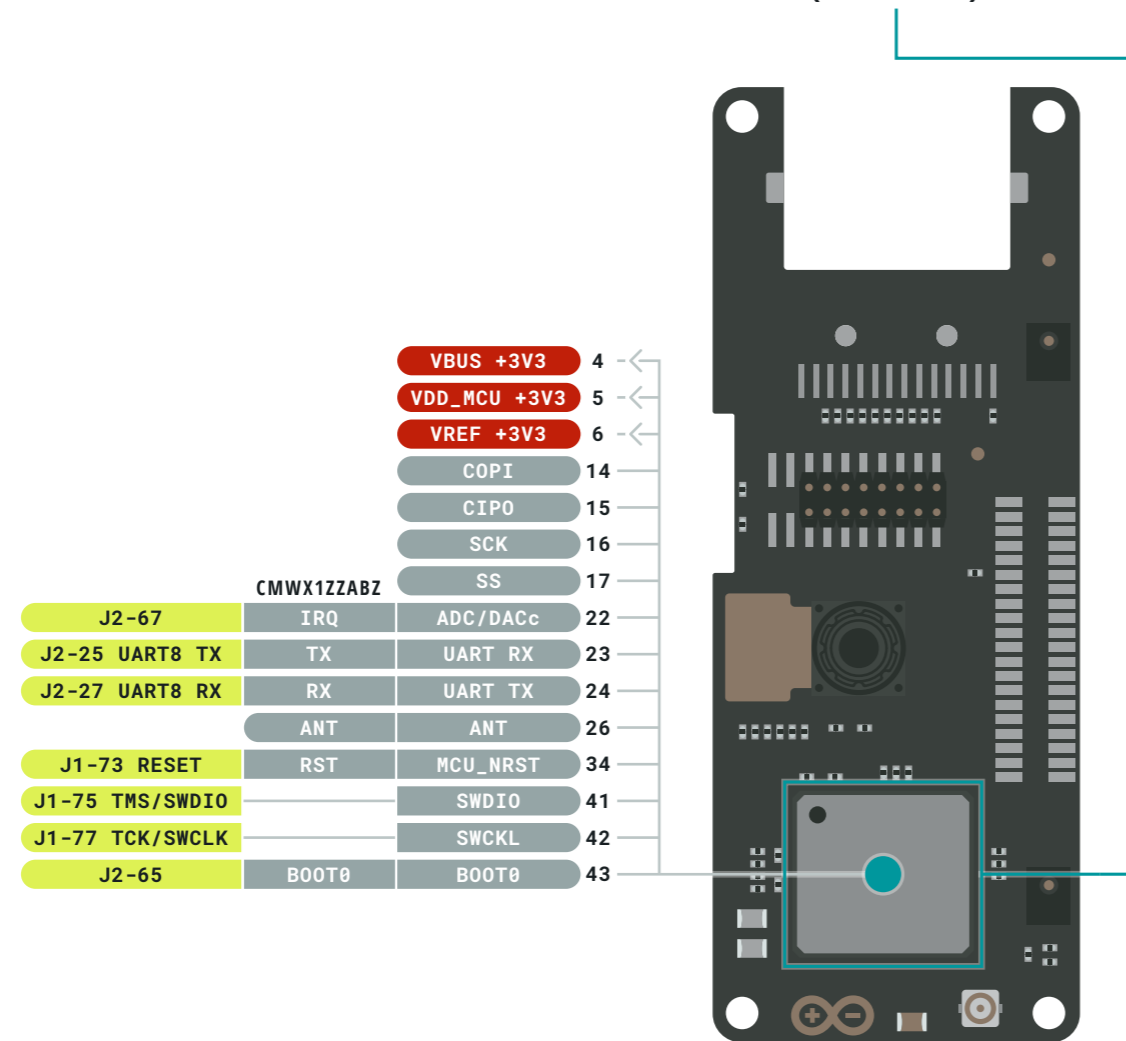- Microcontroller's Port
- High Density Connector

POWER LIMITS
Depends on the Board used

NOTE: CIPO/COPI have previously been referred to as MISO/MOSI

The LoRa® connector is
available only in the version
with LoRa® Connectivity
(ASX00026)

The Ethernet connector is
available only in the version
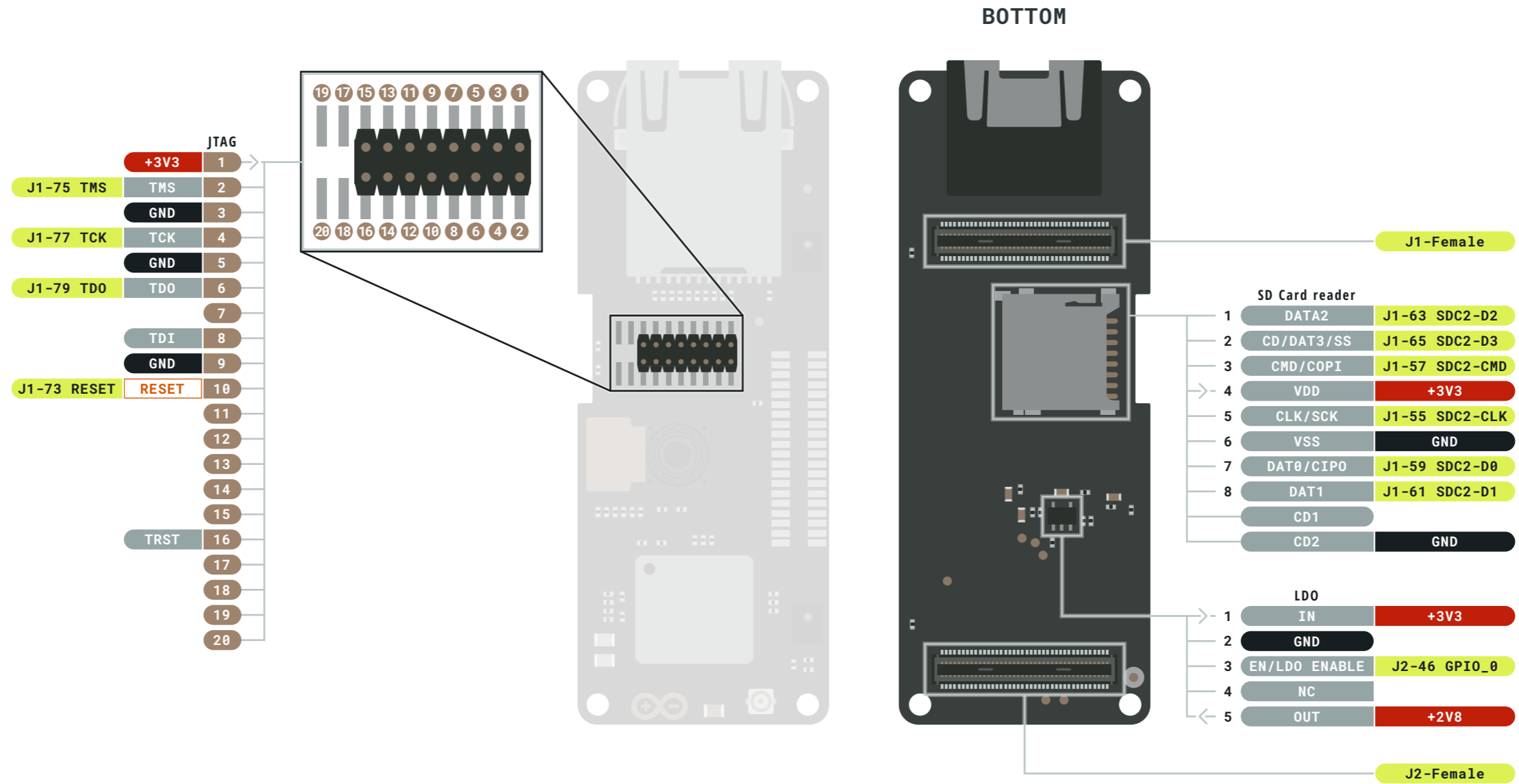with Ethernet Connectivity
(ASX00021)

7498111120AR

1	LINK_P		
2	LINK_N		
3	D1_P	J1-1	ETH_A_P
4	D1_N	J1-3	ETH_A_N
5	D2_P	J1-5	ETH_B_P
6	D2_N	J1-7	ETH_B_N
7	D3_P		
8	D3_N		
9	D4_P		
10	D4_N		
11	VCC	J1-72 VCC	
12	GND		
13	ACT_N		
14	ACT_P		

VBUS +3V3 — 4
VDD_MCU +3V3 — 5
VREF +3V3 — 6
COPI — 14
CIPO — 15
SCK — 16
SS — 17

CMWX1ZZABZ

J2-67	IRQ	ADC/DACc	22
J2-25 UART8 TX	TX	UART RX	23
J2-27 UART8 RX	RX	UART TX	24
	ANT	ANT	26
J1-73 RESET	RST	MCU_NRST	34
J1-75 TMS/SWDIO		SWDIO	41
J1-77 TCK/SWCLK		SWCKL	42
J2-65	BOOT0	BOOT0	43

Ground
Power
LED
Internal Pin
SWD Pin

Digital Pin
Analog Pin
Other Pin
Microcontroller's Port
High Density Connector

⚠ **POWER LIMITS**
Depends on the Board used

NOTE: CIPO/COPI have previously
been referred to as MISO/MOSI

BOTTOM

JTAG

	+3V3	1
J1-75 TMS	TMS	2
	GND	3
J1-77 TCK	TCK	4
	GND	5
J1-79 TDO	TDO	6
		7
	TDI	8
	GND	9
J1-73 RESET	RESET	10
		11
		12
		13
		14
		15
	TRST	16
		17
		18
		19
		20

Pin numbers (top row): 19 17 15 13 11 9 7 5 3 1
Pin numbers (bottom row): 20 18 16 14 12 10 8 6 4 2

J1-Female

SD Card reader

1	DATA2	J1-63 SDC2-D2	
2	CD/DAT3/SS	J1-65 SDC2-D3	
3	CMD/COPI	J1-57 SDC2-CMD	
4	VDD	+3V3	
5	CLK/SCK	J1-55 SDC2-CLK	
6	VSS	GND	
7	DAT0/CIPO	J1-59 SDC2-D0	
8	DAT1	J1-61 SDC2-D1	
	CD1		
	CD2	GND	

LDO

1	IN	+3V3
2	GND	
3	EN/LDO ENABLE	J2-46 GPIO_0
4	NC	
5	OUT	+2V8

J2-Female

Legend

Color	Label
■ (black)	Ground
■ (red)	Power
■ (teal)	LED
■ (gray)	Internal Pin
■ (brown)	SWD Pin
▨ (orange hatched)	Digital Pin
▢ (hatched)	Analog Pin
▢ (white)	Other Pin
■ (orange)	Microcontroller's Port
■ (yellow)	High Density Connector

⚠ **POWER LIMITS**
Depends on the Board used

NOTE: CIPO/COPI have previously
been referred to as MISO/MOSI

ARDUINO

J1-Female

Left	#		#	Right
SWO	79		80	
SWCK	77		78	
SWDIO	75		76	
RESET	73		74	
	71		72	V-SDCARD
	69		70	
	67		68	DMIC D0
SDC D3	65		66	DMIC CK
SDC D2	63		64	VSYS
SDC D1	61		62	I2S D0
SDC D0	59		60	I2S DI
SDC CMD	57		58	I2S WS
SDC CLK	55		56	I2S MCK
VSYS	53		54	GND
CAN1 RX	51		52	
CAN1 TX	49		50	
GND	47		48	VIN
I2C1 SD6	45		46	I2C0 SCL
I2C1 SDA	43		44	I2C0 SDA
VIN	41		42	GND
UART1 CTS	39		40	UART0 CTS
UART1 RTS	37		38	UART0 RTS
UART1 RX	35		36	UART0 RX
UART1 TX	33		34	UART0 TX
GND	31		32	VIN
USB1 ID	29		30	
USB1 D-	27		28	USB0 D-
USB1 D+	25		26	USB0 D+
USB1 VBUS	23		24	
VIN	21		22	GND
ETH L2	19		20	DSI CK-
ETH L1	17		18	DSI CK+
	15		16	DSI D0-
	13		14	DSI D0+
	11		12	DSI D1-
	9		10	DSI D1+
ETH B-	7		8	
ETH B+	5		6	
ETH A-	3		4	
ETH A+	1		2	

BOTTOM
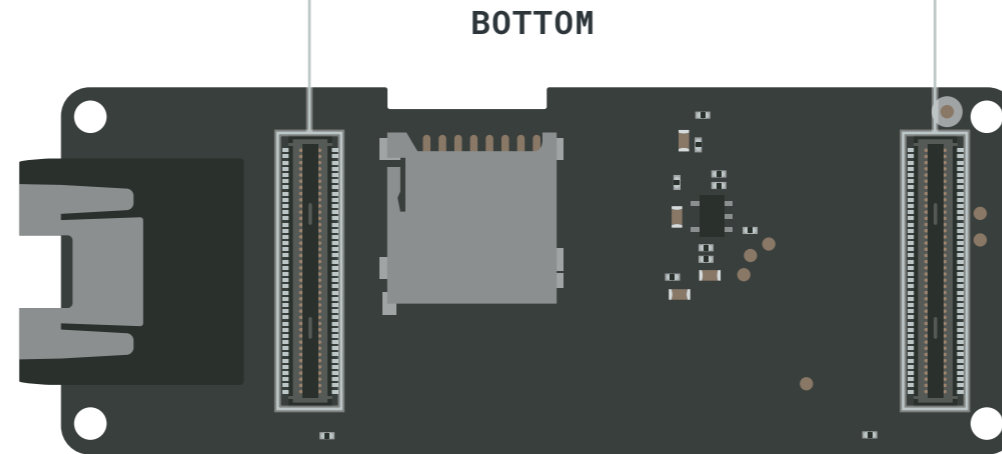
J2-Female

Left	#		#	Right
CAM D7	2		1	FORCE_BOOTLOADER
CAM D6	4		3	BOOT_SOURCE
CAM D5	6		5	POWER_ON_REQ
CAM D4	8		7	COINCELL
CAM D3	10		9	
CAM D2	12		11	
CAM D1	14		13	
CAM D0	16		15	
CAM VS	18		17	
CAM CLK	20		19	
CAM HS	22		21	
GND	24		23	VCC/+3V3
UART2 TX	26		25	UART3 TX
UART2 RX	28		27	UART3 RX
	30		29	
	32		31	
VCC	34		33	GND
SPI1 CS	36		35	
SPI1 CK	38		37	
SPI1 CIPO	40		39	
SPI1 COPI	42		41	
GND	44		43	VCC/+3V3
GPIO 0	46		45	I2C2 SDA
GPIO 1	48		47	I2C2 SCL
GPIO 2	50		49	SAI CK
GPIO 3	52		51	SAI FS
GPIO 4	54		53	SAI D0
GPIO 5	56		55	
GPIO 6	58		57	GND
PWM 6	60		59	PWM 1
PWM 7	62		61	PWM 2
PWM 8	64		63	PWM 3
PWM 9	66		65	PWM 4
PWM 10	68		67	PWM 5
GND	70		69	VCC/+3V3
ADC VREF-	72		71	ADC VREF+
ADC A4	74		73	ADC A0
ADC A5	76		75	ADC A1
ADC A6	78		77	ADC A2
ADC A7	80		79	ADC A3

Legend

- Ground
- Power
- LED
- Internal Pin
- SWD Pin
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- Analog Pin
- Other Pin
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- High Density Connector

POWER LIMITS
Depends on the Board used

NOTE: CIPO/COPI have previously been referred to as MISO/MOSI