ARDUINO

DL1-A | Power

AREF

TOUCH0	A0	D15
TOUCH1	A1	D16
TOUCH2	A2	D17
TOUCH3	A3	D18
TOUCH4	A4	D19
GROVE_AN5	A5	D20
GROVE_AN6	A6	D21
SD_CS		D0
DISP_DC		D1
DISP_CS		D2
DISP_BL		D3
LED_CKI		D4
LED_SDI		D5

| +5V |
| VIN |
| +3V3 |
| GND |
RESET	DISP_RST
D14	RELAY1
D13	RELAY2
D12	SCL
D11	SDA
D10	CIPO
D9	SCK
D8	COPI
D7	BUZZER
D6	INT

LPS22HB Pressure sensor
HTS221 Temperature sensor
APDS9306065 Light sensor
LSM6DSOX IMU sensor

ABT461RC
| D7 | BUZZER |

Legend

Ground	Digital Pin
Power	Analog Pin
LED	Other Pin
Internal Pin	Header Connector
SWD Pin	Default

POWER LIMITS
Depends on the Board used

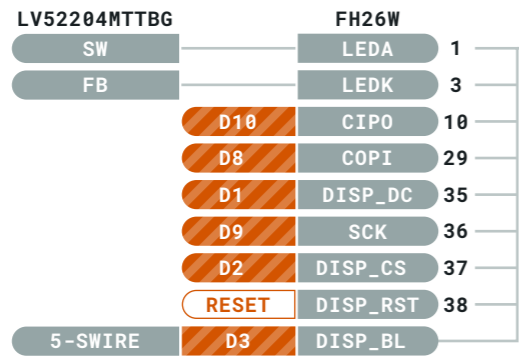NOTE: CIPO/COPI have previously
been referred to as MISO/MOSI

MKR Board

To supply with battery, plug the battery connector over the MKR board to the battery connector over the IoT Carrier

| +BAT | VBAT | + |
| -BAT | GND | - |

GROVE I2C

	GND	4
	+5V	3
D11	SDA	2
D12	SCL	1

GROVE A5

	GND	4
	+5V	3
A5	D20	GROVE_AN5	1

GROVE A6

	GND	4
	+5V	3
A6	D21	GROVE_AN6	1

RLY_2

| DL3-L2 | D13 | RELAY2 |

MAXIMUM voltage of 30V for each Relay Connector ⚠️

RLY_1

| DL2-L1 | D14 | RELAY1 |

18650 Li-Ion 3.7 V

SD Card reader

2	CD/DAT3/SS	D0
3	CMD/COPI	D8
6	CLK/SCK	D9
7	DAT0/CIPO	D10

Legend

- ⬛ Ground
- 🟥 Power
- 🟩 LED
- ⬜ Internal Pin
- 🟫 SWD Pin
- 🟧 Digital Pin
- ▱ Analog Pin
- ▢ Other Pin
- 🟧 Header Connector
- 🟨 Default

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

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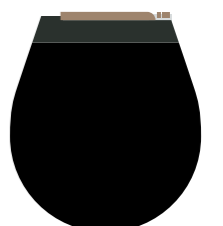
BOTTOM

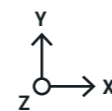The connector FH26W works with the square LCD screen. It is present in the Explore IoT Kit version (AKX00027)

JAX133T-IF05

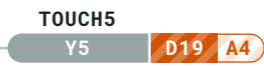**LV52204MTTBG** | | | **FH26W**
SW		LEDA	1
FB		LEDK	3
D10	CIPO	10
D8	COPI	29
D1	DISP_DC	35
D9	SCK	36
D2	DISP_CS	37
RESET	DISP_RST	38
5-SWIRE	D3	DISP_BL

TOUCH3
| A2 | D17 | Y3 |

TOUCH2
| A1 | D16 | Y2 |

TOUCH1
| A0 | D15 | Y1 |

TOUCH4
| Y4 | D18 | A3 |

IMU 6-AXIS
LSM6DSOX
9	INT	D6
13	SCL	D12
14	SDA	D11

SFV24R | | | **LV52204MTTBG**
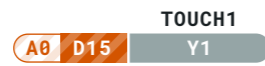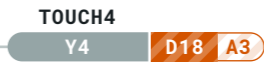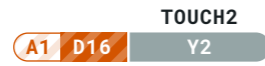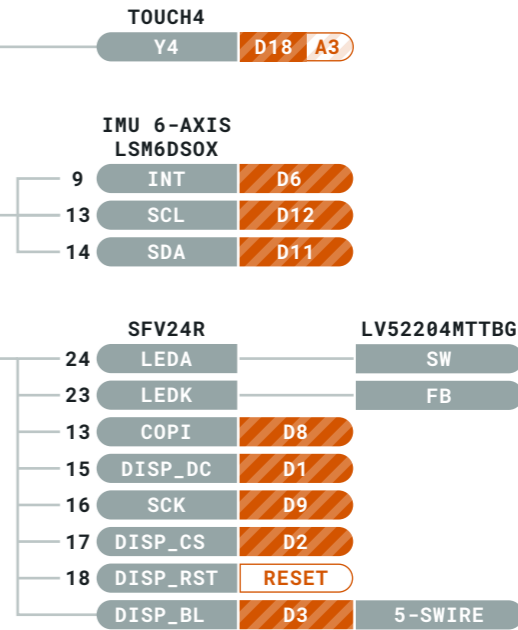| 24 | LEDA | | SW |
23	LEDK		FB
13	COPI	D8
15	DISP_DC	D1
16	SCK	D9
17	DISP_CS	D2
18	DISP_RST	RESET
	DISP_BL	D3	5-SWIRE

The connector SFV24R works with the round LCD screen. It is present in the Oplà IoT Kit (AKX00026) and MKR IoT Carrier (ABX00047) version.

KD013QVFMD002-01

TOUCH5
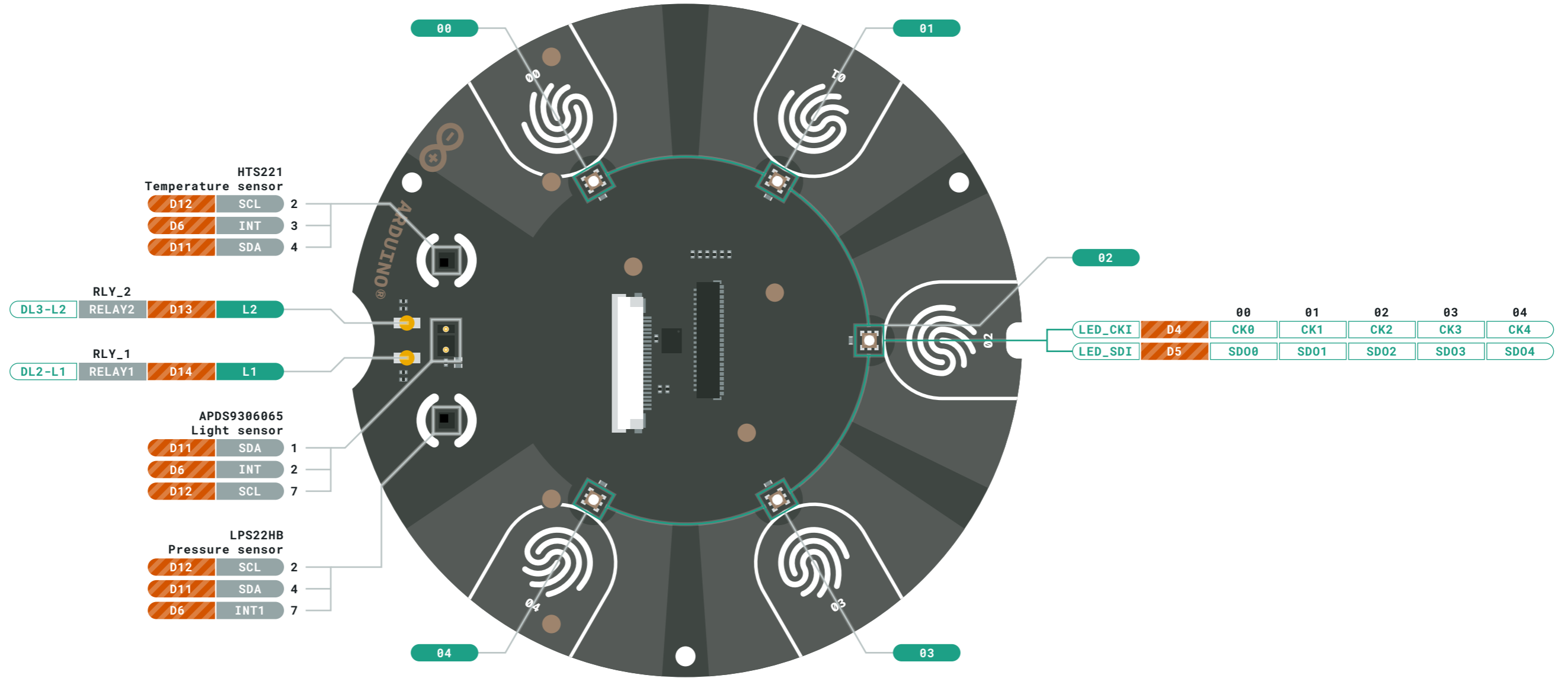| Y5 | D19 | A4 |

ARDUINO®

Y
Z X

Legend:
- Ground
- Power
- LED
- Internal Pin
- SWD Pin
- Digital Pin
- Analog Pin
- Other Pin
- Header Connector
- Default

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

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

BOTTOM

HTS221
Temperature sensor

D12	SCL	2
D6	INT	3
D11	SDA	4

RLY_2

DL3-L2	RELAY2	D13	L2	

RLY_1

DL2-L1	RELAY1	D14	L1	

APDS9306065
Light sensor

D11	SDA	1
D6	INT	2
D12	SCL	7

LPS22HB
Pressure sensor

D12	SCL	2
D11	SDA	4
D6	INT1	7

		00	01	02	03	04
LED_CKI	D4	CK0	CK1	CK2	CK3	CK4
LED_SDI	D5	SDO0	SDO1	SDO2	SDO3	SDO4

Legend

- Ground
- Power
- LED
- Internal Pin
- SWD Pin
- Digital Pin
- Analog Pin
- Other Pin
- Header Connector
- Default

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

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