GPIO_IN

GPIO_OUT

GPIO_AN

MCU

Application Task

ISR

Driver ADXL3XX
Accelerometer
(evento)

Driver MLX90632
IR temperature sensor
(ciclico)

Driver BME280
Humidity , pressure and
temperature sensor
(ciclico)

Driver ZMOD4510
Air quality sensor
(ciclico)

Driver VCNL4040
Optical sensor
(ciclico)

Driver MLX90614
IR temperature sensor

SERCOM0_STDIO

SERCOM1_MODEM

Sync I2C_DRIVER

SERCOM2_PERIPHERAL

App
Network Man.

App
Service Man.

App
Data Ingestion

Driver
ADXL343

Start

ISR

Get (optional)

Processing

ISR

Stream

Stop

ISR

Initialize Driver, load
configuration and power up

INIT

ERROR

RUN

De-Initialize Driver,
power down
(T2)

Wait interrupt