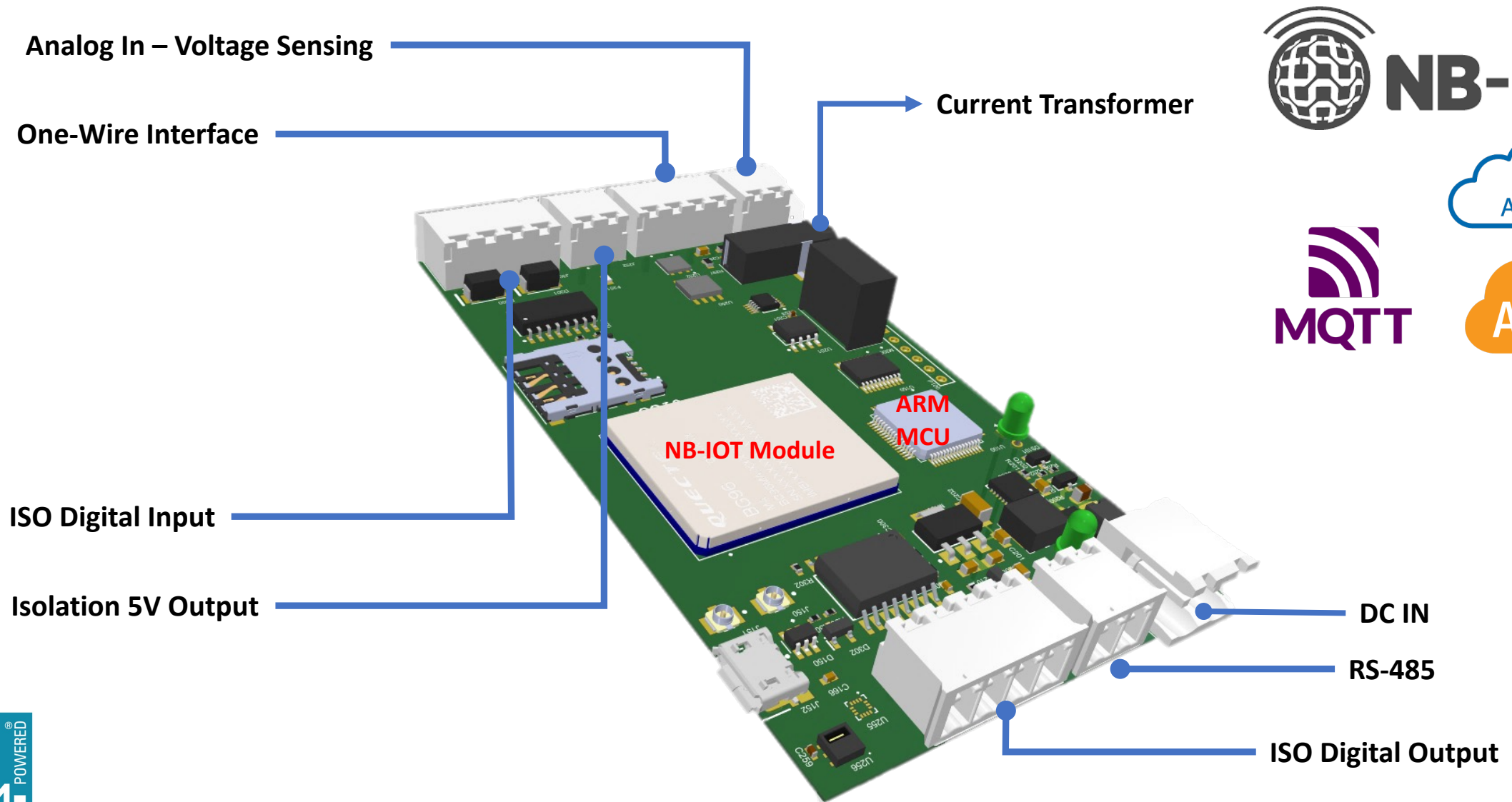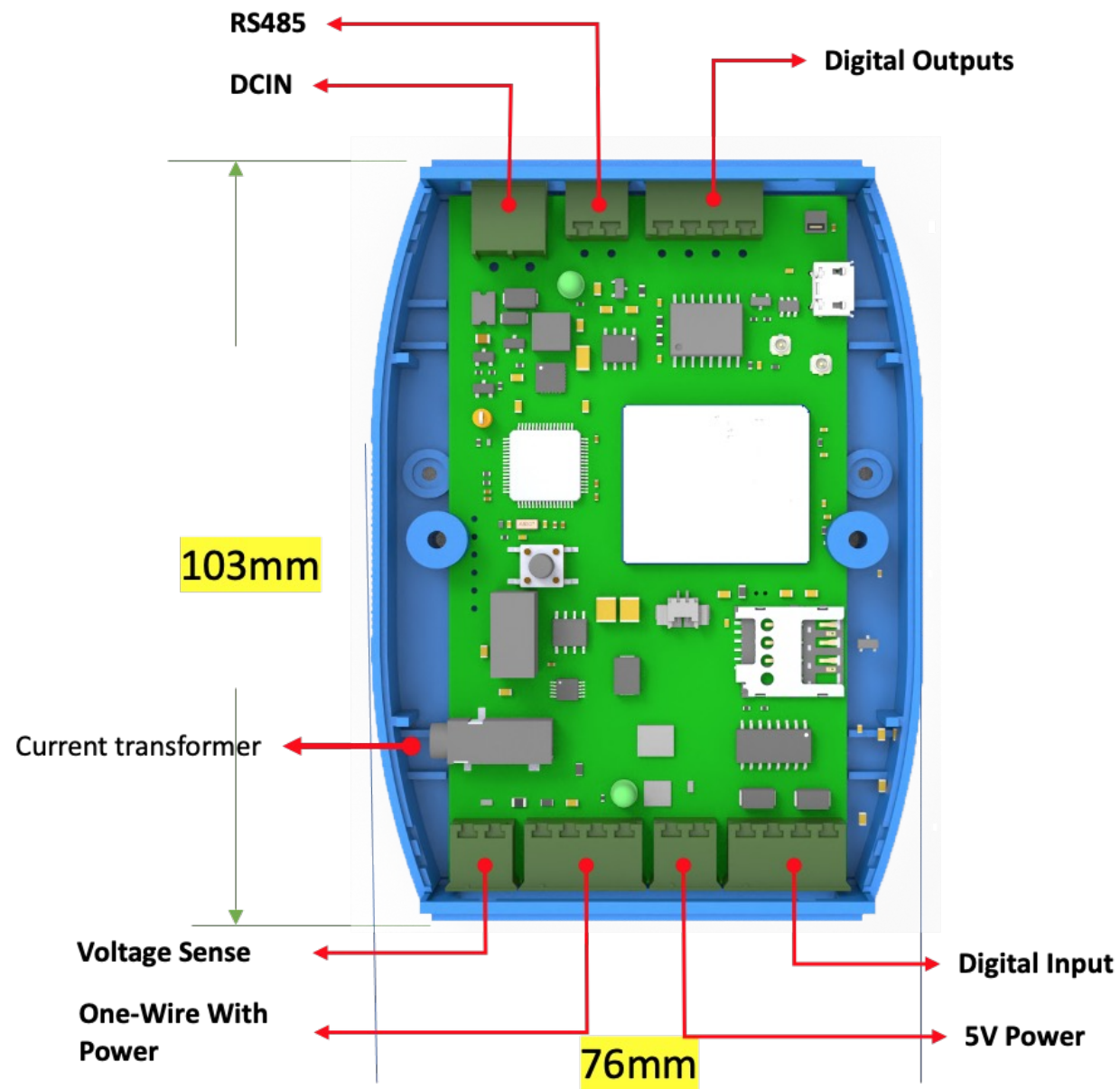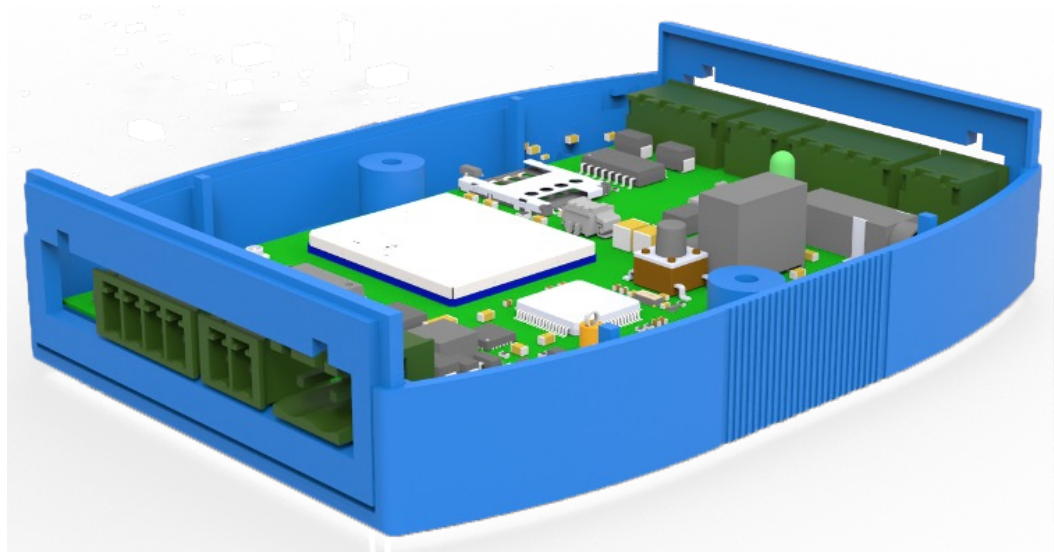# IoTEasier

LIVING INNOVATION
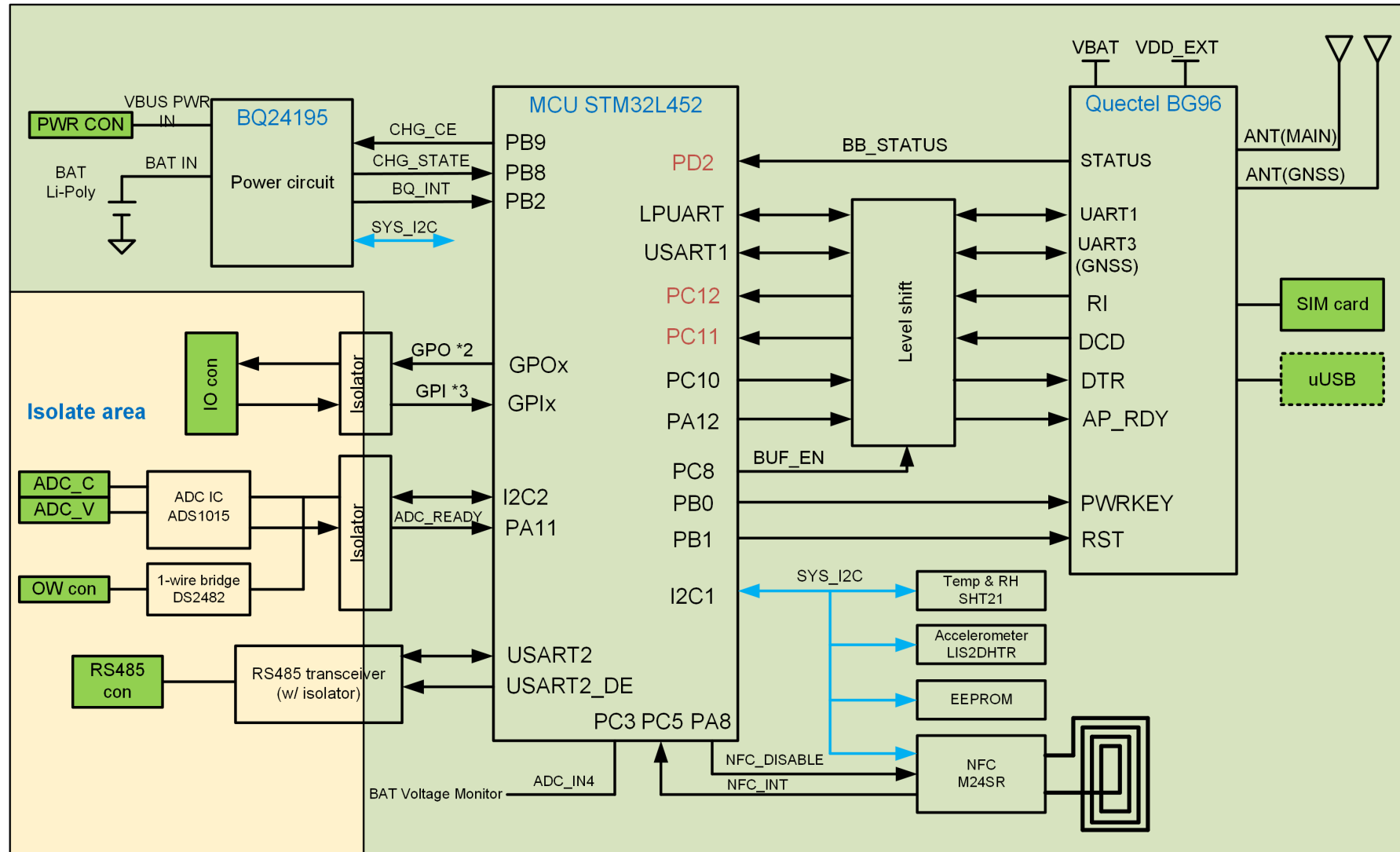
Remote Sensor Hub - Voyagerxd

- MODEL : WTN630XA
- Wireless Interface : NBIOT, LTE-M
- MQTT Protocol
- GPS Support
- RS485 Modbus-RTU
- 1-Wire Interface (Temperature)
- Isolate DI x3, DO x2 (BJT)
- AC power monitor
  - CT (0-100A)
  - Voltage Sensing (0-240VAC)
- Li-ion Battery inside
- VDCIN : 9-17V

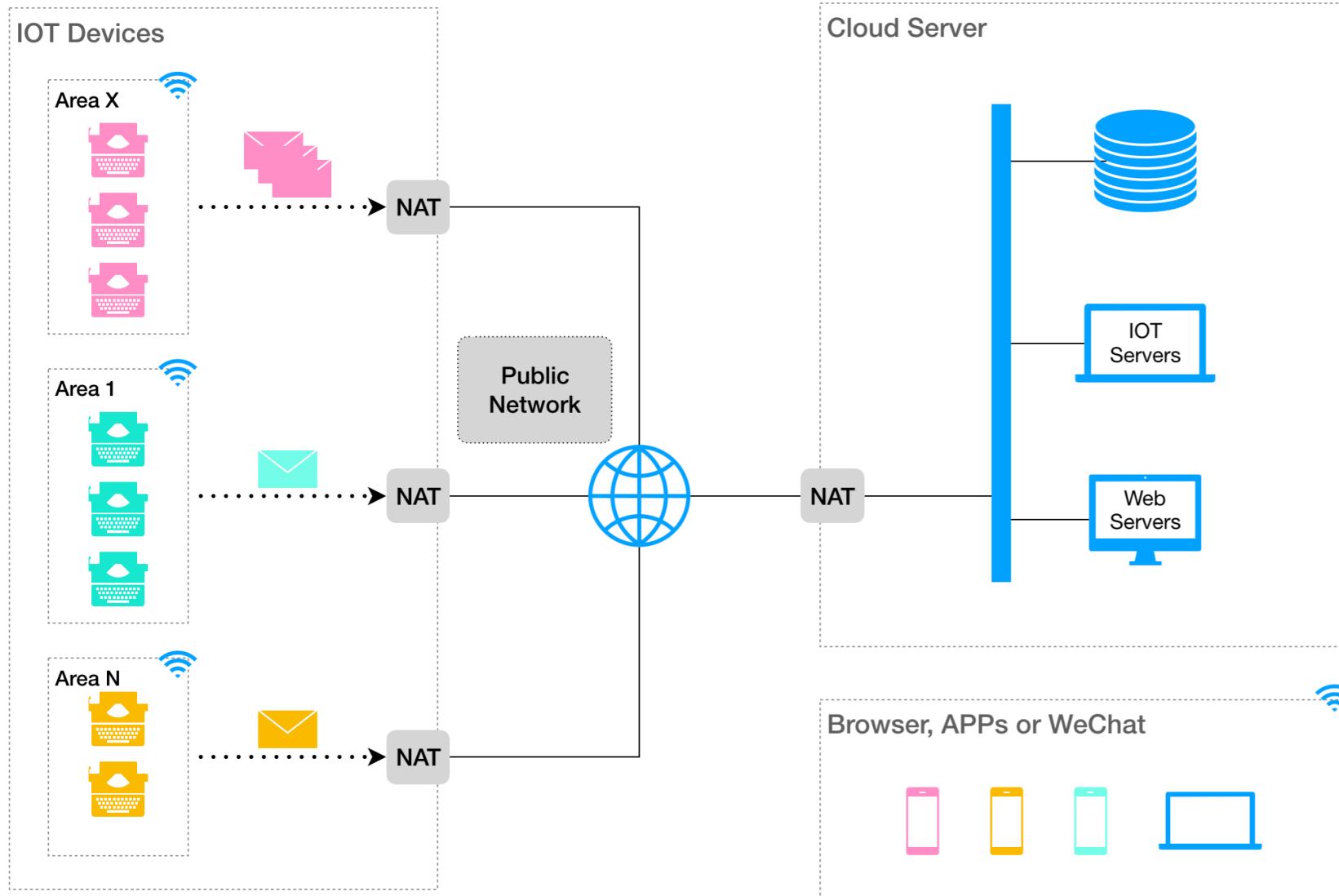Analog In – Voltage Sensing

One-Wire Interface

Current Transformer

NB-IoT

Azure

MQTT

AWS

ISO Digital Input

Isolation 5V Output

NB-IOT Module

ARM MCU

DC IN

RS-485

ISO Digital Output

ARM POWERED

RS-485

1-wire

Analog

I/O

GPS

Ver. XB ES

RS485

DCIN

Digital Outputs

103mm

Current transformer

Voltage Sense

One-Wire With Power

76mm

Digital Input
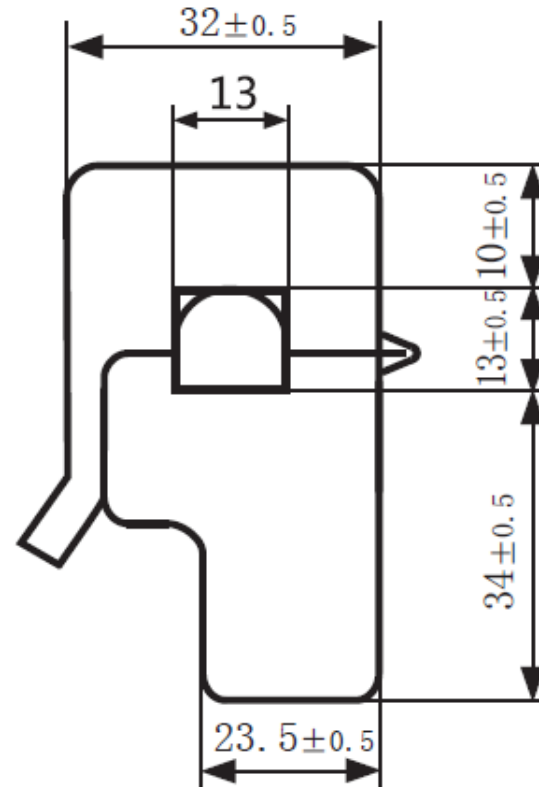
5V Power

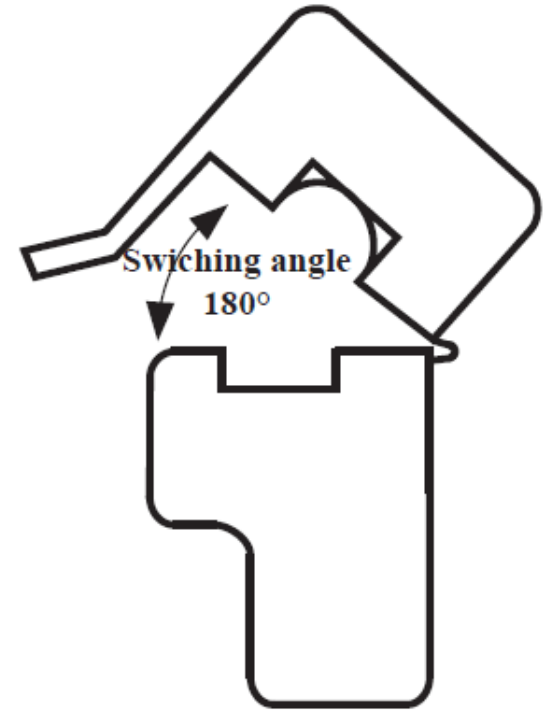# Voyager XD Block diagram

Voyager Application Architecture

Sensor Spec

Current Transformer (CT)

- Part Number: SCT-013-000
- Input : 0-100A (*1)
- Output : 50mA
- Loading : 20 ohm
- Accuracy :
- Frequency :
- Opening Hold Size : 13mm

Front View

Side View

*1 : STC024TS support up to 300A, but it has 50% more expensive than SCT-013-000

Thermal Detect

- One-Wire interface
- Chipset: DS18B20
- Operation Temperature : -55 ~ 125 Degree C
- Signal : Power, Output (1-Wire), Ground
- Power supply : 3V – 5.5V
- $\pm 0.5^O$C Accuracy from -10°C to +85°C
- Multiple sensors can share one pin