Cloudio

A plug-and-play gateway that syncs data and settings of industrial machineries with their digital twins on AWS IoT Core for remote monitoring.

- Retrofit & visualize real-time data & insights.

- integrate effortlessly with your ERP and BI systems via APIs.

Key features

- **Powerful Data Acquisition**
  Capture critical industrial data from a wide range of devices supporting Modbus-RS485.

- **APIs for Data and AI-insight**
  AI insights and data on our dashboard; or integrate to your CRM/ERP or other BI systems.

- **Simple installation**
  Retro-fit your machine by simply scanning our QR code and have it online in less than 5 min.

- **Connectivity out-of-the-box**
  Secure WIFI/BLE/MESH; & encrypted AWS cloud link for transmission and multi-level backups.

- **Robust & Efficient Design** with up to IP68 sealed with a power efficient electronics design for 50X electric savings.

- **Future-Ready & Scalable**
  Consistent OTA updates for prolonged device lifespan.

Specifications

Interface	Modbus RTU / RS485
Weather Seal	IP66 - IP68
Power (Avg.)	3-5.5V DC
- Active (fulltime)	0.1W (< 1 min. Interval)
- Active (intermittent)	0.01W (10 min. interval)
- Sleep	0.1mW (~24uA)
Connectivity	WIFI 6 (802.11ax), BLE 5.3
	Zigbee (802.15.4)
Security	TLS v1.2, TLSv1.3
Updates	AWS hosted FOTA upgrade
Microcontroller	160MHz RISC-V
Antenna	Onboard PCB or IPEX3
Expansion interface	3 x 12 bit ADC for sensors
	1 x I2C sensors
Location	AP's MAC & IP based
Dimension	105 X 70 X 40 mm
Product code	See device case
Material	Polycarbonate
Provisioning	Vaiota provision App
Visualization	Vaiota Dashboard

Application sectors

- Food & Beverage Industry
- Water Treatment systems
- Chemical Industry
- Agriculture & Farming
- Pharmaceuticals
- Solar & Wind Energy
- Oil & Gas Industry

Deployment App

Get Vaiota's Mobile App from google Play store

How to deploy?

Follow this link or scan the QR code for detailed cloudio deployment manual.

User dashboard

app.vaiota.de

Usage

Simply connect Vaiota Cloudio to the machine's RS485/Modbus RTU connector and provision the cloudio using the Mobile App. The provisioning process allows users to select WIFI network and Password for connectivity.

Machine data

Control settings

AWS

**Your machine connected
to Cloudio**

**Encrypted
communication**

**AWS
infrastructure**

Rest API,
GraphQL

**Vaiota's
dashboard &
App**

**Your own
CRM/ERP, or
process control
systems**