

Industrial IoT made easy

End to end, remote asset monitoring and predictive maintenance for legacy assets.

Our IoT + Al solution includes,



IoT Bridge

Tiny far edge device with Wi-Fi, BLE, Modbus and sensor ports



Software w/Al Engine

For easy onboarding, data logging & anomaly detection



Web/ Mobile App

Continuously monitor and optimise asset performance



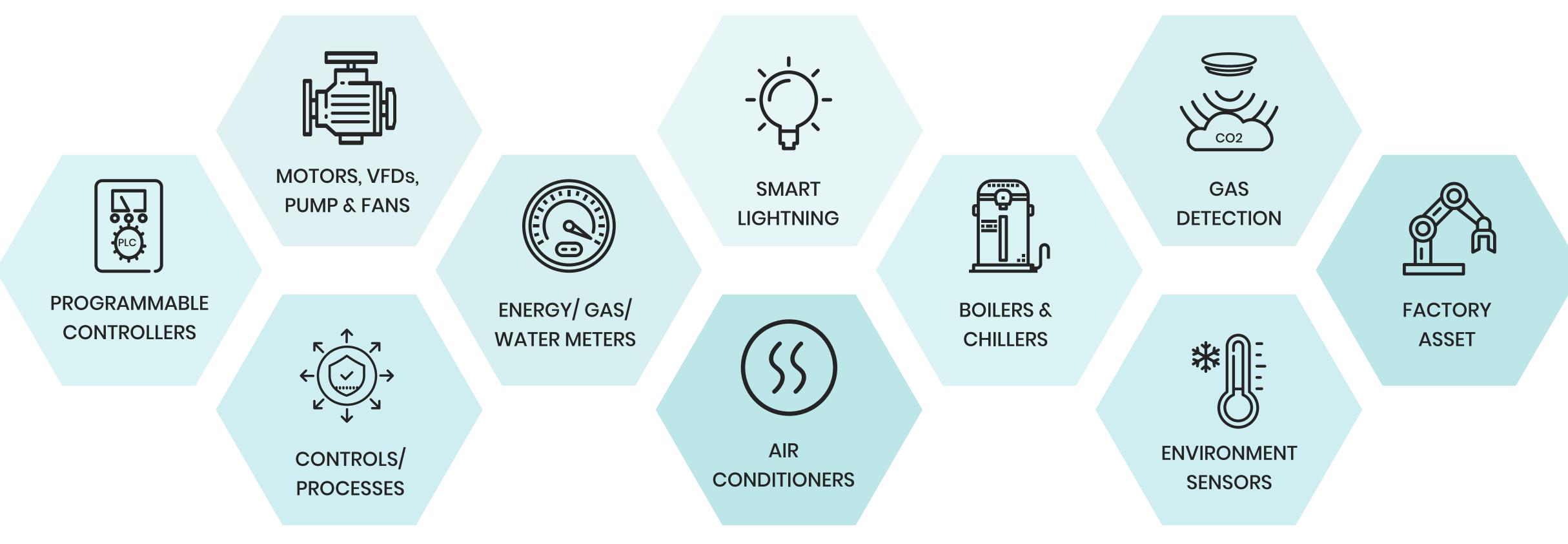
Cloud Service (SaaS)

Easily manage devices, user/data, monitor assets & detect anomalies



iCast1 seamlessly integrates Greenfield and Brownfield assets including sensors, meters, motor drives, PLCs and Modbus RTU capable devices with the Shoreline IoT cloud at a minimal cloud subscription providing long-term data storage, real-time monitoring and alert notifications

Target Applications



Key Features



ONE STOP SHOP

Device hardware, device software, Mobile App, IoT Cloud SaaS subscription all provided by Shoreline. Faster time to deployment at lower cost



FAST AND SECURE ONBOARDING

Connect and start monitoring legacy assets within few min. Securely provision legacy assets and sensors at much lower up front cost



REMOTE ASSET MONITORING

Efficiently monitor assets, remote data logging, get live data, see real time oscilloscope view of machines, charts and alerts



AI BASED ANOMALY DETECTION

Early detection of problems with rotating machine such as motors, pumps, fans, etc. Anomaly examples - broken / slip belt, worn out bearings

O IoT Cloud Software (SaaS)

101 Olda Joltval C (Jaas)

Multiple SaaS plans based on usage and services

- Fast & Secure Onboarding Registration, configuration & authentication
- User account & data management Multi tenancy support, historical data downloads
- Remote Asset monitoring Using real time data, rules engine, alerts, charts & notification. API interface for third party cloud and applications.
- Device management Device activation, MODBUS & sensor profile manager, health diagnostics & logs, OTA firmware upgrades



IoT Mobile Software

- iOS & Android Mobile Apps for on-boarding & User App
- Easy device provisioning to Wi-Fi AP & Shoreline IoT Cloud platform
- Re-configuration of sensor and actuator profiles
- Device health status and on-site diagnostics
- Monitoring using real-time readings, alerts, notifications & charts

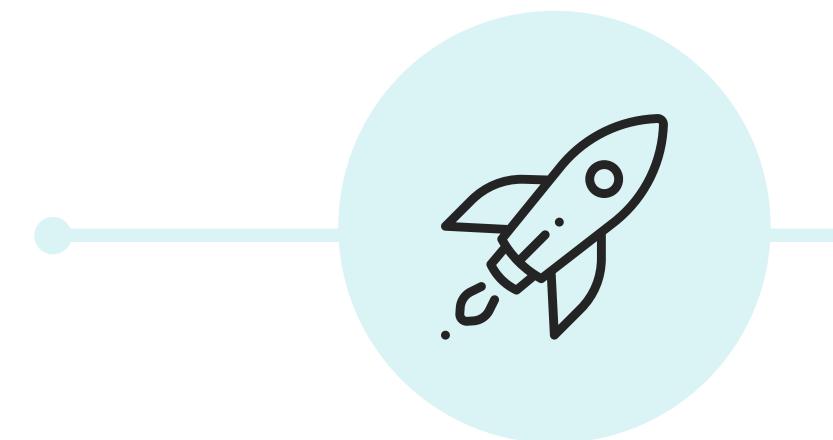


IoT Device Software

- Machine learning Real time anomaly detection with local Al engine
- Live Oscilloscope View Real time monitoring at 10K samples/sec
- Data logging & pre-processing. Local rules configurable from cloud
- IoT Protocols MQTT, WebSockets, TCP/IP, HTTP, DHCP, TLS 1.2, SSL
- AWS IoT device SDK and option to add other Cloud agents



Benefits







Work smarter



Reduce cost



Retrofit buildings & plants



Radio

IoT Bridge Hardware

Wi-Fi	Certified IEEE 802.11 b/g/n Wi-Fi, 2.4GHz radio
Bluetooth	BLE v4.2, Mesh support (optional)
Southbound interfaces	
Modbus I/O	MODBUS RTU over RS485(Max. baud rate 115200)
Sensor I/O	2 Analog Inputs (0-10V / 4-20 mA) 4 Digital I/O (configurable as Input / Output)
System features	
System	Two 32 bit (ARM M4) Micro-controllers, 8 MB Flash
Security	Secure boot, Enhanced AES engine
General features	
oonor an it	eatures
Power In	eatures External power supply 12-24V DC / 1A

