SHIRATECH KNOWTION

iCOMOX™

Your Fast Track to Industry 4.0

Shiratech's Intelligent Condition Monitoring Box – iCOMOX™ – offers an Industry 4.0 ready End-to-End solution for condition-based monitoring, predictive maintenance and predictive maintenance of industrial equipment, assets and structures. Designed as Plug & Play solution for quick installation.

Sensor Fusion
1 board
5 sensors

True Edge Computing
On device intelligence

Machine Learning
Anomaly detection

AR/VR Maintenance
Guiding technicians every step of the way

Outstanding Connectivity
4 Connectivity options

Use Cases

Oil & Gas
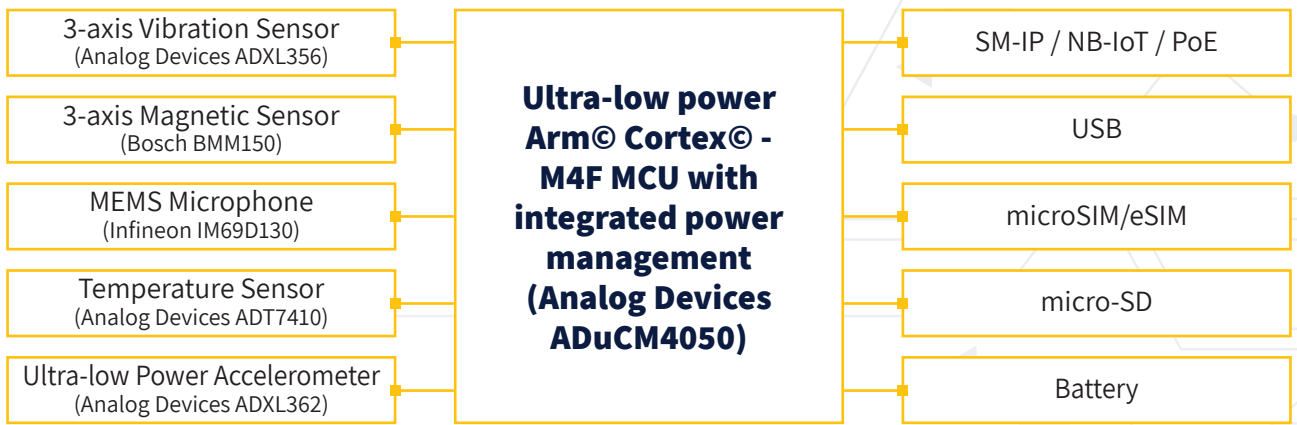
Factories

Construction Facilities

Infrastructure

Food & Beverage

Predict the Future

- Multi-sensing: vibration, magnetic field, temperature and sound sensors.
- On edge artificial intelligent for machine learning and predictive maintenance.
- From Sensor to Cloud – supporting all cloud providers per API.
- End-to-End Solution – discover iCOMOX™ with Augmented/Virtual Reality.

3-axis Vibration Sensor (Analog Devices ADXL356)		SM-IP / NB-IoT / PoE
3-axis Magnetic Sensor (Bosch BMM150)	Ultra-low power Arm© Cortex© - M4F MCU with integrated power management (Analog Devices ADuCM4050)	USB
MEMS Microphone (Infineon IM69D130)		microSIM/eSIM
Temperature Sensor (Analog Devices ADT7410)		micro-SD
Ultra-low Power Accelerometer (Analog Devices ADXL362)		Battery

Two Modules

iCOMOX™ with PoE

Wired solution for industrial applications

SHIRATECH KNOWTION

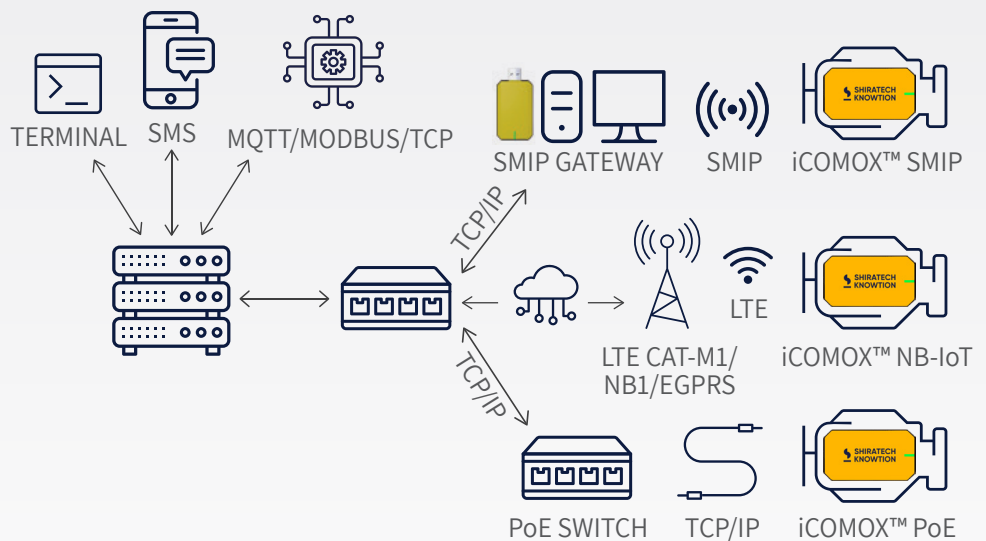### iCOMOX™ with NB-IoT

Low power wireless communication

Communication Options

iCOMOX™ Network Architecture Design

TERMINAL SMS MQTT/MODBUS/TCP

SMIP GATEWAY SMIP iCOMOX™ SMIP

TCP/IP

LTE CAT-M1/ NB1/EGPRS LTE iCOMOX™ NB-IoT

TCP/IP

PoE SWITCH TCP/IP iCOMOX™ PoE