



YOUR REMOTE MONITORING SYSTEM

## ORCHESTRA SMART-BOX

THE END TO END SOLUTION FOR THE ENTIRE  
MANUFACTURING ECOSYSTEM

REMOTE DIAGNOSTICS

MACHINES' RETROFITTING

SMART MAINTENANCE

REMOTE CONFIGURATION

### EDGE COMPUTING CLOUD ARCHITECTURE

to distribute monitoring and control functions between the shopfloor and the CLOUD on the most effective proper configuration.

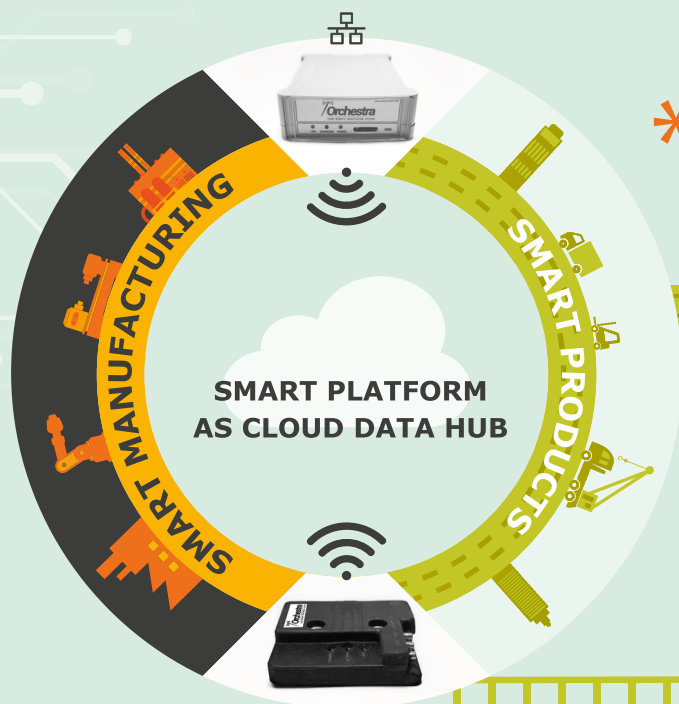
### READY TO USE, PLUG & PLAY, NO PROGRAMMING

to shrink the time to market, making life easier to customers and business partners.

### AN ALL-IN-ONE DEVICE

Connects new and existing machines on multiple protocols at the same time. Sets itself properly to run the monitoring services as asked by the remote users. Enables users for proximity access to deliver AR or local controls.

**DIGITAL  
INTENSIVE**  
FOR INDUSTRY 4.0



# TECHNICAL FEATURES

## • MAIN BOARD •

### TECHNICAL DETAILS

**Processor:** Cortex M4 120Mhz

**Battery:** RTC with Backup Battery

**Memory:** 1-8 Gb flash memory; Optional micro-SD-Card

**Sensor:** 3D Accelerometer + Gyro

**I/O:** 4I+4O photocoupled

**Connectivity:** CAN 2.0 a/b (CanOpen, J1939); RS232; RS485; USB-OTG

### FEATURES

**Remote assistance:** Double RJ45 Port with VPN connectivity

**Harsh environment:** Rugged version

**Status LEDs:** data transmission and device status

RUGGED



DIN RAIL



## • OPTIONAL COMMUNICATION BOARD •

### WIRELESS COMMUNICATION

**3G:** Dual-Band HSPA+/WCDMA

(optional 4G-LTE: Five-Band FDD-LTE + Dual-Band TDD-LTE)

**Wi-Fi:** ESP32 SoC-based module 802.11 b/g/n (optional: Dual-mode Bluetooth, BLE)

**Antenna:** internal/external

### GEOLOCALIZATION

**GNSS:** gpsOne Gen 8B (Standalone; Assisted; XTRA; Glonass)

**Antenna:** internal/external

## • OPTIONAL IIoT BOARD •

**PROFIBUS:** DB9 Connector

**PROFINET and Ethernet-based:** RJ45 Connector

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