Orchestra
YOUR REMOTE MONITORING SYSTEM

Smart Systems Integrated
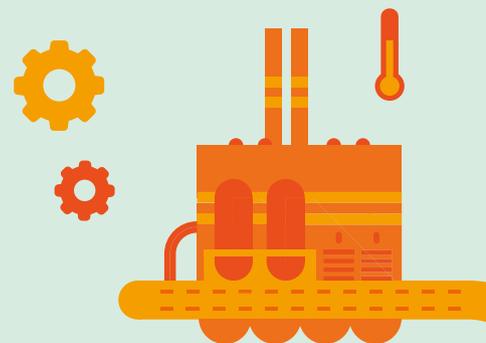
ORCHESTRA
SMARTEdge4.0

REMOTE DIAGNOSTICS

MACHINES' RETROFITTING

SMART MAINTENANCE

REMOTE CONFIGURATION

**EDGE COMPUTING
ON 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

SMART MANUFACTURING

SMART PRODUCTS

SMARTEdge4.0

SMARTHinge4.0

SMARTEdge4.0
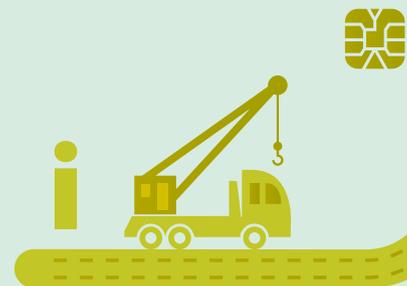
TECHNICAL FEATURES

Smart **S**ystems **I**ntegrated

MAIN BOARD

TECHNICAL DETAILS

Processor: Cortex M7 400MHz with Crypto/Hash HW
Battery: RTC with Backup Battery
Memory: 1-8 Gb flash memory; Optional micro-SD-Card
Sensor: 3D Accelerometer + Gyro
I/O: 4I+4O photocoupled, compatibility with I/O expander
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

OPTIONAL COMMUNICATION BOARD

WIRELESS COMMUNICATION

3G: Dual-Band HSPA+/WCDMA
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

DIN RAIL

OPTIONAL IIoT BOARD

PROFIBUS: DB9 Connector
PROFINET and Ethernet-based: RJ45 Connector

www.smart-systems-integration.org

www.orchestraweb.com