Rugged IT Systems for the Workplace

akuino
YOUR MONITORING DATA

WHAT AN **ALL TERRAIN COMPUTER** CAN DO?
It can…

- **collect data** about environment or equipments
- locally display data **integrated** from different sources
- offer **local services** to people around
- grant accesses, start machines
- make **commercial transactions**
- send **alarms** if something goes wrong
- communicate usage **statistics**

AKUINO
OPEN INNOVATION COMMUNITY…

- listens to the **needs** from All Terrains
- gathers the required **competencies**
- designs and tests **ready-to-use** systems
- assembles **Rugged Open Hardware**
- develops applications using and contributing
  to **Open Source Software**

OPEN

Software: Linux, Python, C++, etc.

Hardware: RaspberryPi, Industruino (Arduino)

CONNECTED

Local Data sharing and storage (Hard Disk available)

Cloud connection if desired (Ethernet, WIFI)

Open Data Publishing for selected time series

USB, Bluetooth, RS-485

1-Wire, 4/20ma, I2C

433MHz Radio sensors and many others

PROTECTED

Weatherproof enclosure (**IP65**) with DIN rails up to 54 places

Battery protected power supply (12V and 5V)

Protected Digital&Analogic Inputs&Outputs

Widespread components for easy repairs

HUMAN INTERFACE

HDMI for Image & Sound

LCD screen + buttons

Camera

When manufacturing, **Open Source** Application **ELSA** archives **all events** linked to each batch produced: quantities, weights, volumes, temperatures, etc. It steadily monitors equipments&containers and follows batches from one production step to another. It **alerts** for any measure out of range. Graphs and raw data are produced for statistical and cost analysis.

Application **BARBARA** manages transactions during an event (**local currency**): Wristbands with barcodes can be credited (cash or card) and are charged with products&services bought. Stations are networked and up to **6 bartenders** per station can be scanning. **Sales statistics** are available in real-time.

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