Orange Box
Industrial IoT for brownfield
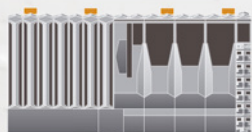
ERP / MES

SCADA

Cloud

mapp VIEW

HMI application

Orange Box

Audit trail logger

PLC

3rd party PLC

OEMs

The Orange Box can add a powerful new option to an OEM's portfolio – allowing them to offer shop-floor data acquisition as a value-added service for collecting and analyzing production data from customers' brownfield installations.

→ Easy setting by configuring
→ Suitable for any production environment
→ Flexible and scalable
→ App-like hardware/software upgrades
→ Advanced maintenance service

OEMs can provide a quick and easy connectivity upgrade for any machine, regardless of automation platform.

With remarkably simple, yet highly effective shop-floor data acquisition, the Orange Box can transform even the oldest equipment into smart, interconnected lines ready for ultra-efficient production.

mapp OEE

OEE calculations are fundamental to equipment performance. With this mapp component, the Orange Box enables real-time analysis of data from all types of equipment – displayed clearly, effectively and consistently.

mapp Preferences

Equipped with this mapp component, the Orange Box allows you to define production data related to shifts, products and recipes without having to manipulate the original machine or plant software.

mapp Data

This mapp component allows users to back up values of defined process variables to CSV files. Current data can then be visualized via the Orange Box, enabling access to helpful statistics and ensuring that data is secure in the event of a power outage. It also provide an OPC-UA connectivity to higher level.

mapp Tweet

mapp Tweet sends automated text message notifications regarding machine status, unexpected stoppages, upcoming service or critical alarms directly to the appropriate recipients.

mapp
TECHNOLOGY

PREFERENCES

OEE

DATA

ALARM

Orange Box

TWEET

OMAC

PACK ML

ADD USER

ENERGY

Scalability+

mapp Add User

mapp Add User assigns users to groups with configurable permissions and provides a variety of functions, such as password expiration, that support implementation of 21 CFR Part 11 requirements.

mapp Energy

mapp Energy allows the Orange Box to report energy consumption and cost data per machine and component – providing valuable insight for improving energy efficiency.

mapp PackML

With mapp PackML, the Orange Box can generate machine control logic compliant with the OMAC PackML standard, manage the PackML states and modes – and even display the PackML interface on the HMI screen.

mapp Alarm

mapp Alarm collects, logs and evaluates alarms, generating simple and informative notifications in multiple languages. Alarms are grouped logically with critical alarms highlighted and easy to recognize.

End users

End users face the difficult challenge of increasing market share while at the same time achieving sustainability in markets that are changing at an accelerating rate.

➜ Keep maximum profitability
➜ Shorter product lifecycles
➜ Aggressive marketing strategies
➜ Highly demanding consumers

As a result, daily operations are driven by metrics like OEE, TCO and ROI. Optimizing these factors is all about data. What can you learn from your machine's performance data, and how can you leverage that knowledge by sharing it with other sites – regardless of whether they are greenfield or brownfield installations.

Tapping into valuable performance data at a brownfield plant has never been more straightforward and painless than with the B&R Orange Box – the easy, reliable solution for collecting and analyzing data directly from your machine.

Highlights

➜ Exceptionally user-friendly
➜ Real-time connectivity to existing equipment
➜ Independent of automation level, architecture and supplier
➜ Excellent return on investment
➜ Suitable for any industrial production environment
➜ App-like hardware/software upgrades with B&R Scalability+
➜ Easy setting by configuring

Integrated automation
Global presence
Solid partnership

ETHERNET **POWERLINK**

open **SAFETY**