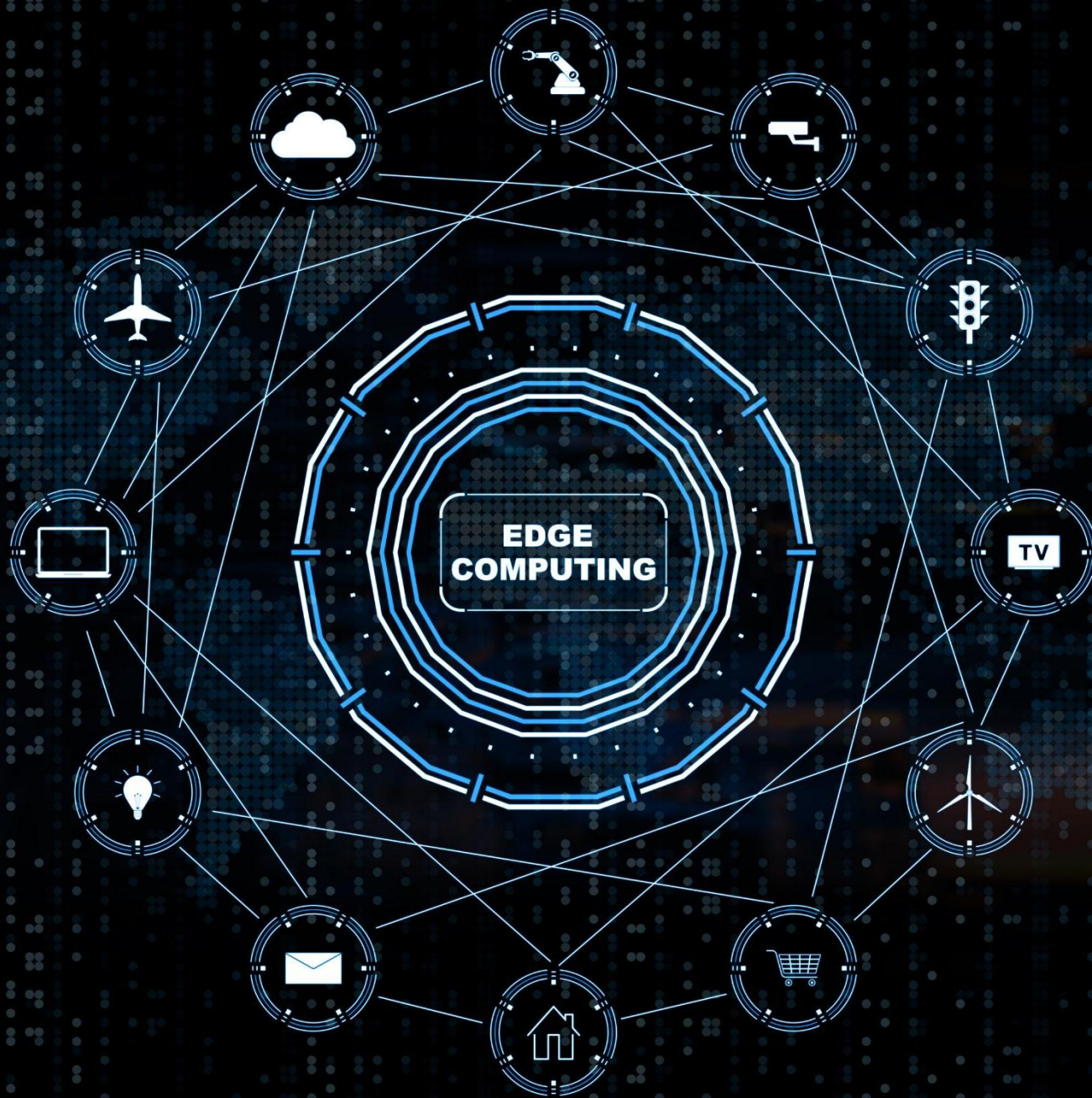


# BRODERSEN

simplifying systems

Docker on Brodersen  
RTU32M

Implementing container  
technology on embedded control  
devices



# Docker on Brodersen RTU32M

## Brodersen RTU32M Overview

The RTU32M is a Linux-based unit tailored for industrial automation and critical infrastructure tasks.

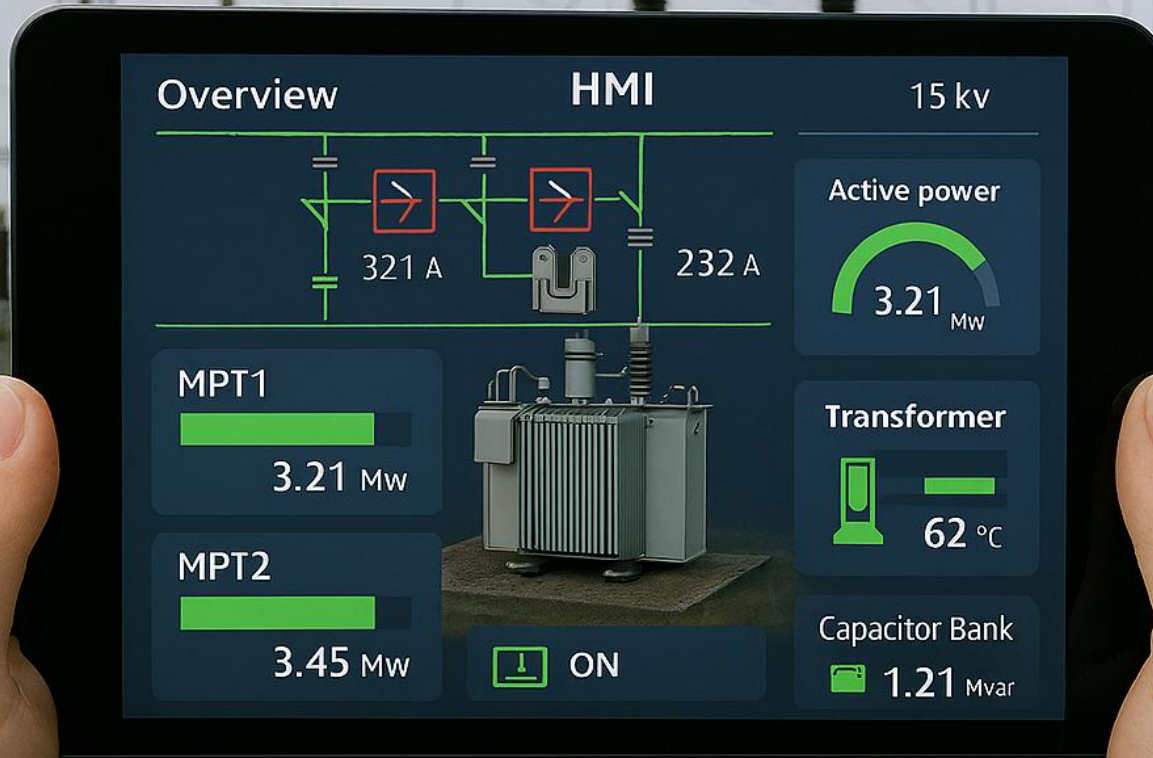
## Docker Container Integration

Docker containers enable isolated, flexible deployment of custom applications on the RTU32M platform.

## Modern Edge Automation

Containerized intelligence modernizes edge computing by supporting advanced analytics, AI, and DevOps workflows.

# Why Docker on RTU32M?



## Isolated Container Execution

Docker allows custom apps to run independently in containers, enhancing system stability and simplifying maintenance.

## Edge AI and Analytics

Integration of AI and analytics at the edge reduces latency and improves system responsiveness.

## DevOps Workflow Support

Docker supports rapid development, testing, and deployment through DevOps workflows in automation systems.



# Use Case Examples



## Edge AI Applications

Edge AI runs Python machine learning models on sensor data to detect anomalies and improve maintenance.

## Protocol Gateways

Gateways using Node-RED or Go apps bridge Modbus with MQTT or REST APIs for seamless communication.

## Data Logging Solutions

Applications log and forward data to cloud platforms ensuring reliable and accessible data storage.

## Custom Dashboards

Dashboards served from RTU provide real-time visualization and control using e.g. Grafana or Flask.



# Architecture Overview

## Containerized Applications Layer

Top layer with Docker containers running Python scripts and Node-RED flows accessing PLC services securely via APIs or MQTT.

## PLC Runtime Layer

Middle layer where RTU32M executes IEC 61131-3 compliant control logic to manage automation tasks efficiently.

## Physical Interface Layer

Base layer connecting RTU to physical I/O devices, sensors, and actuators ensuring real-time interaction with machinery.

# Benefits



## Modular Deployment

Docker allows modular deployment, enabling installation of only necessary applications for efficiency.

## Security and Isolation

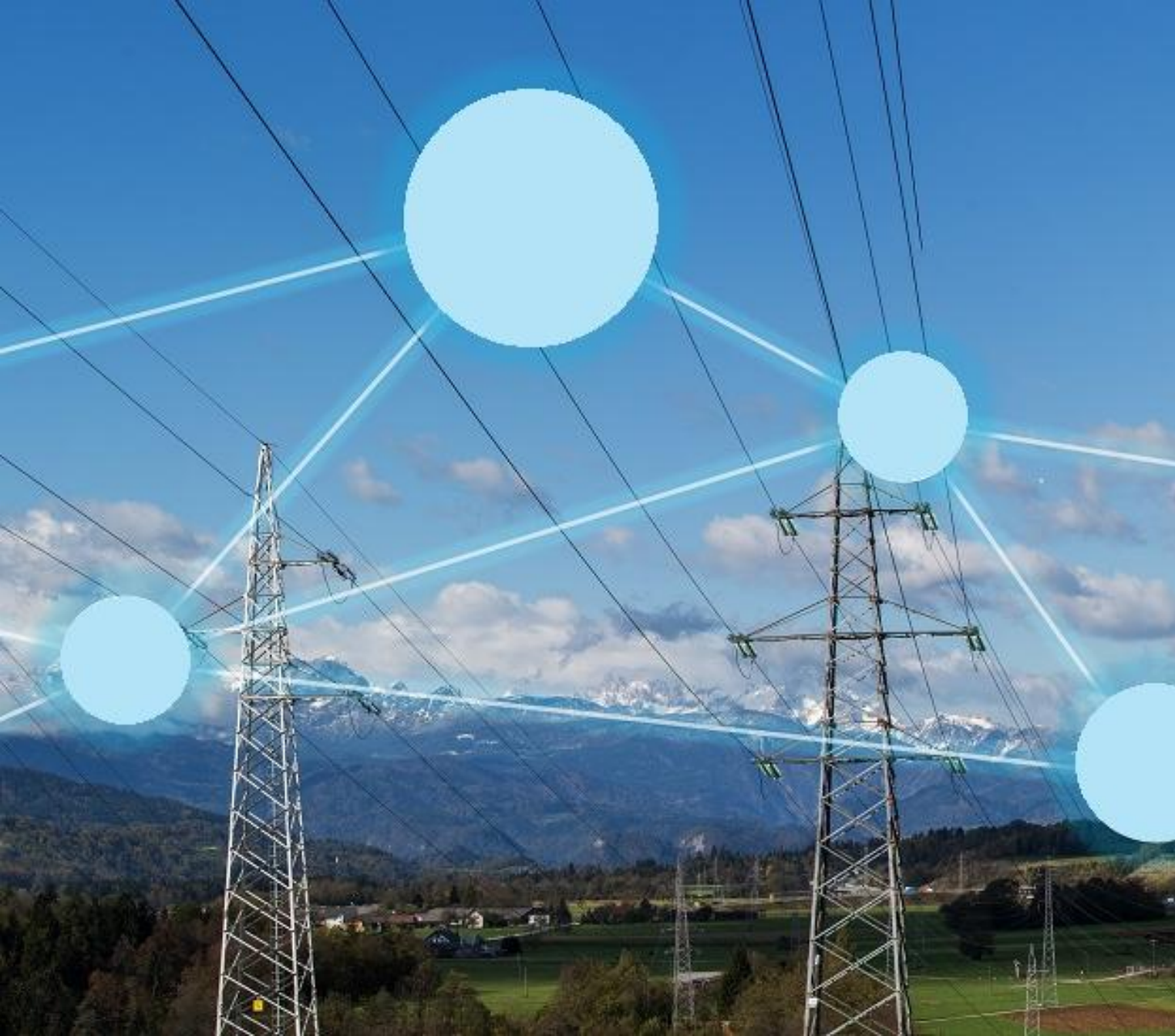
Containerization isolates applications, enhancing security and controlling access to system resources.

## Real-Time PLC Access

Real-time access to PLC data enables intelligent and responsive automation solutions.

## Connectivity and Integration

Supports easy integration with cloud services and SCADA systems for connected industrial workflows.



# Get Started Today

## Edge Innovation with Docker

Docker on Brodersen RTU32M enables flexible, containerized applications to drive innovation at the edge.

## Rapid Deployment and Scalability

Leverage containerized solutions to deploy and scale custom applications quickly and efficiently.

## Integration and Demonstration

Request a demo to explore integration possibilities and see Docker on RTU32M in action.

[sales@brodersen.com](mailto:sales@brodersen.com)