

# faircom edge

The world's first converged IoT/Industrial IoT hub

## Introduction

FairCom EDGE is a plug-and-play, all-in-one IoT/Industrial IoT hub engineered to run on the edge – from wind farms and factory floors to warehouses and retail stores. It continuously gathers and collects data from connected devices and machines for data integration, real-time monitoring, edge analytics and cloud publishing.

## Industrial

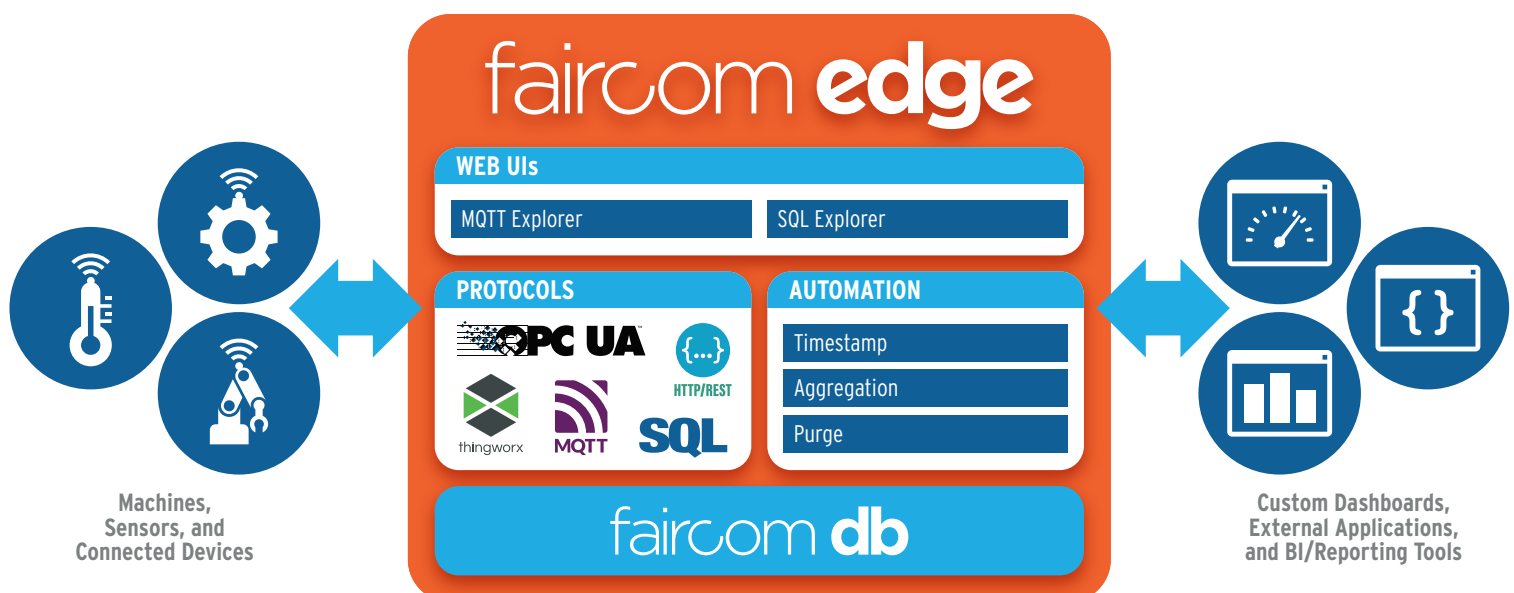
FairCom EDGE supports standard industrial protocols such as OPC UA, automatically gathering and collecting data from compatible machines and sensors as soon as their addresses are provided. Optionally, FairCom EDGE can then publish the data to MQTT brokers in the cloud or directly to PTC ThingWorx in order to implement digital twins.

## Benefits

- No-code data integration out of the box
- Compatible with common machine protocols
- No external, third-party software required
- Web UI for easy configuration and monitoring
- Built-in database (FairCom DB) for durability and analytics

## MQTT

With an enhanced MQTT broker, a modern web UI for configuration and real-time monitoring, connected devices and machines can publish and subscribe to topics hosted on FairCom EDGE. In addition, FairCom EDGE is capable of publishing and subscribing to topics on other MQTT brokers such as those in AWS IoT Core and Azure IoT Hub, and optionally, via built-in store and forward technology.



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## Persistence

Unlike other IoT/Industrial IoT hubs and MQTT brokers, FairCom EDGE has its own lightweight, high-performance database – one that is optimized for mission-critical applications running in resource-constrained environments. As a result, FairCom EDGE is uniquely able to parse, map and persist data without the need for a separate database – ensuring the data it collects is both durable and easily accessible.

## Analytics

FairCom EDGE simplifies analytics by storing all historical data in its underlying database, limited only by the amount of storage available. It supports remote JDBC/ODBC connections and standard SQL, and includes a modern web UI (SQL Explorer) for interactive, ad hoc analytics. In addition, FairCom EDGE can be extended with custom web applications and dashboards using its built-in web server and REST API.



## Operating systems

- Windows 10 x86
- Windows 10 x64
- Linux x86\_64
- Linux ARM32
- Linux ARM64
- Mac OS

## Protocols

- OPC UA
- MQTT
  - JSON
  - Simatic 7 UDTs
- ThingWorx AlwaysOn
- SQL
- HTTP/REST

## Protocol bridging

- OPC UA to MQTT
- OPC UA to SQL
- OPC UA to HTTP/REST
- MQTT to MQTT
- MQTT to ThingWorx
- MQTT to SQL
- MQTT to HTTP/REST



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