

OptixEdge Commercial Presentation

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Allen-Bradley
by ROCKWELL AUTOMATION



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Learn More

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Only **44%** of data is being used effectively

Source: 9th Annual State of Smart Manufacturing Report

| Edge Value Drivers in Manufacturing



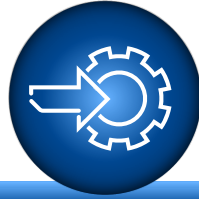
Monitoring and Control

Allows for immediate data processing and decision making on the plant floor, which is crucial for applications like safety monitoring or real-time quality control



Predictive Maintenance

By analyzing data from machinery and equipment locally, the ability to predict when maintenance is needed quickly results in reduced downtime



Enhanced Automation

Supports advanced automation by enabling faster data processing and communication between machines



Data Filtering and Contextualization

Provides the ability to filter and contextualize raw data before sending it to the cloud, which reduces the amount of data being transmitted. Additionally, transmitting less data to the cloud can provide cost savings



Improved Security and Compliance

Processing data locally helps protect sensitive information and ensures compliance and adheres to regulations for specific industries



OptixEdge

An advanced edge gateway
located at the **machine's edge**

to collect, process, analyze,
and transmit data to the **cloud**

enabling users
to **monitor and analyze** machine
or system data from **any location.**



| OptixEdge Overview

The OptixEdge connects to the control system to collect, analyze, and send data to the cloud

What

an Advanced Edge Gateway

- Collect, analyze and push data to the cloud using an Edge or HMI application that is also accessible via web-browser
- Provide remote assistance with embedded digital I/O for additional security
- Extend the embedded capabilities by hosting Docker containers

Where

at the Machine Edge

- Can access both the Local Area Network (LAN) and the Wide Area Network (WAN)
- Compatible with Rockwell Automation as well as third party controllers
- Ideal for greenfield and brownfield plants and applications

How

Headless stand-alone device

- Use the pre-installed OptixEdge Wizard App to configure your edge application at runtime or use FactoryTalk Optix Studio to build and deploy your own application
- Provides networking functionality such as NAT, Routing and Internet Sharing¹, the same networking functionality as the Stratix 4300 Remote Access Router
- Load, run and orchestrate your favorite containerized application using Docker CLI, Portainer, Ansible



| OptixEdge Standard Features

Software

FactoryTalk Optix and Remote Access included, expand with Docker containers



Digital I/O

Embedded digital I/O for additional security and remote assistance

Networking Capabilities¹

NAT, Routing and Internet Sharing functionality



Installation

Standalone Din Rail or Book Mount

Interfaces

Dedicated WAN and LAN ports, serial port, USB port, and MicroSD slot for storage expansion



¹available after release via firmware upgrade



| Flexible Deployment Options for FactoryTalk Optix

Select the optimal platform for performance, functionality and openness



Thin Clients & Industrial PCs

Use when you need...

A high-powered, open compute platform for hardware and software expandability



On-Machine Industrial PCs

Use when you need...

A self-enclosed IP65 industrial PC with optional configurable buttons



Sealed & Closed HMI Terminals

Use when you need...

A sealed, firmware-based visualization appliance at a low total cost of ownership



The OptixEdge is Here

Headless Edge Devices

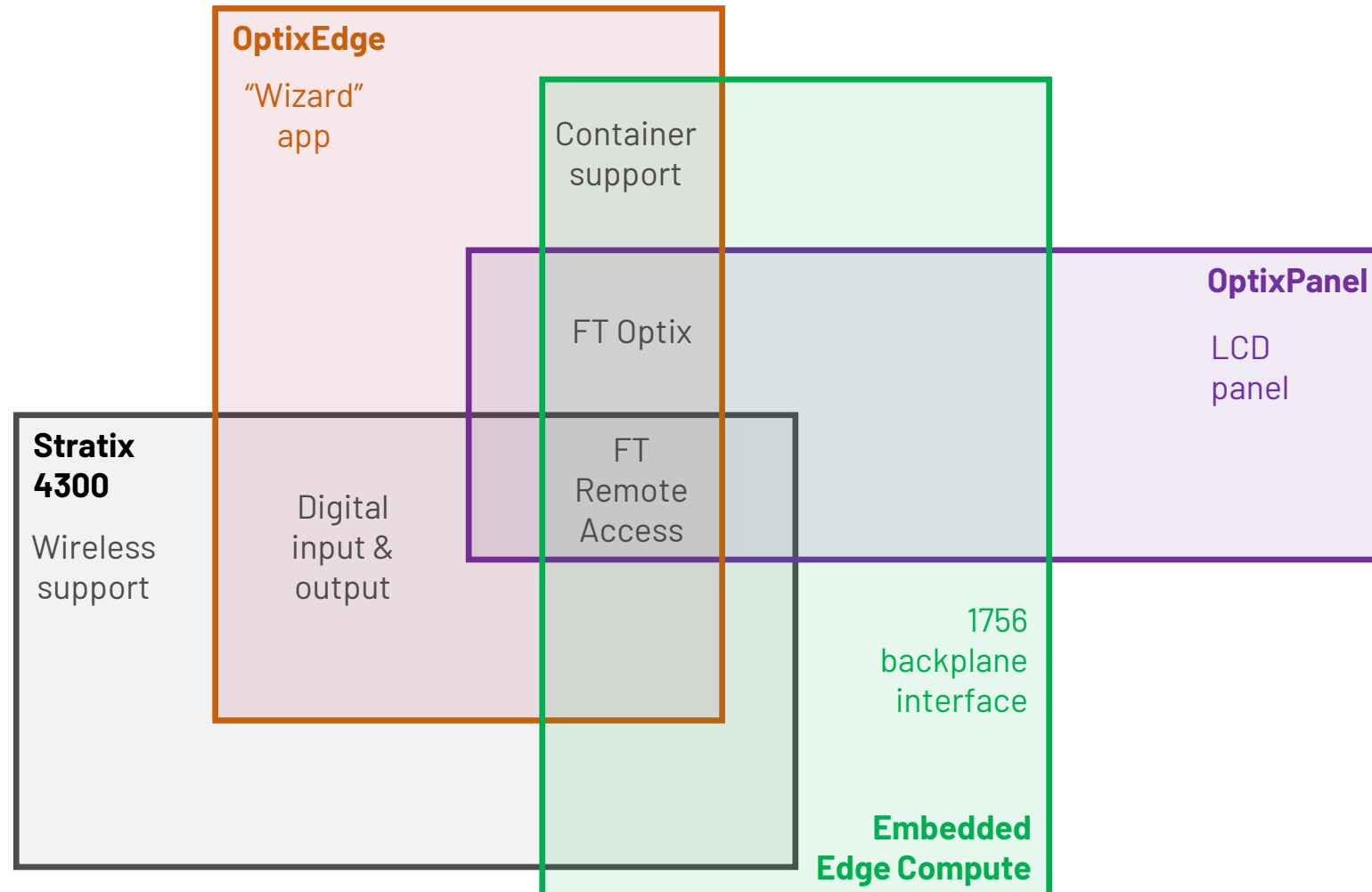
Use when you need...

An edge device that connects to your control system to collect, analyze, and send data to the cloud



Flexible Deployment Options for FactoryTalk Optix and Remote Access

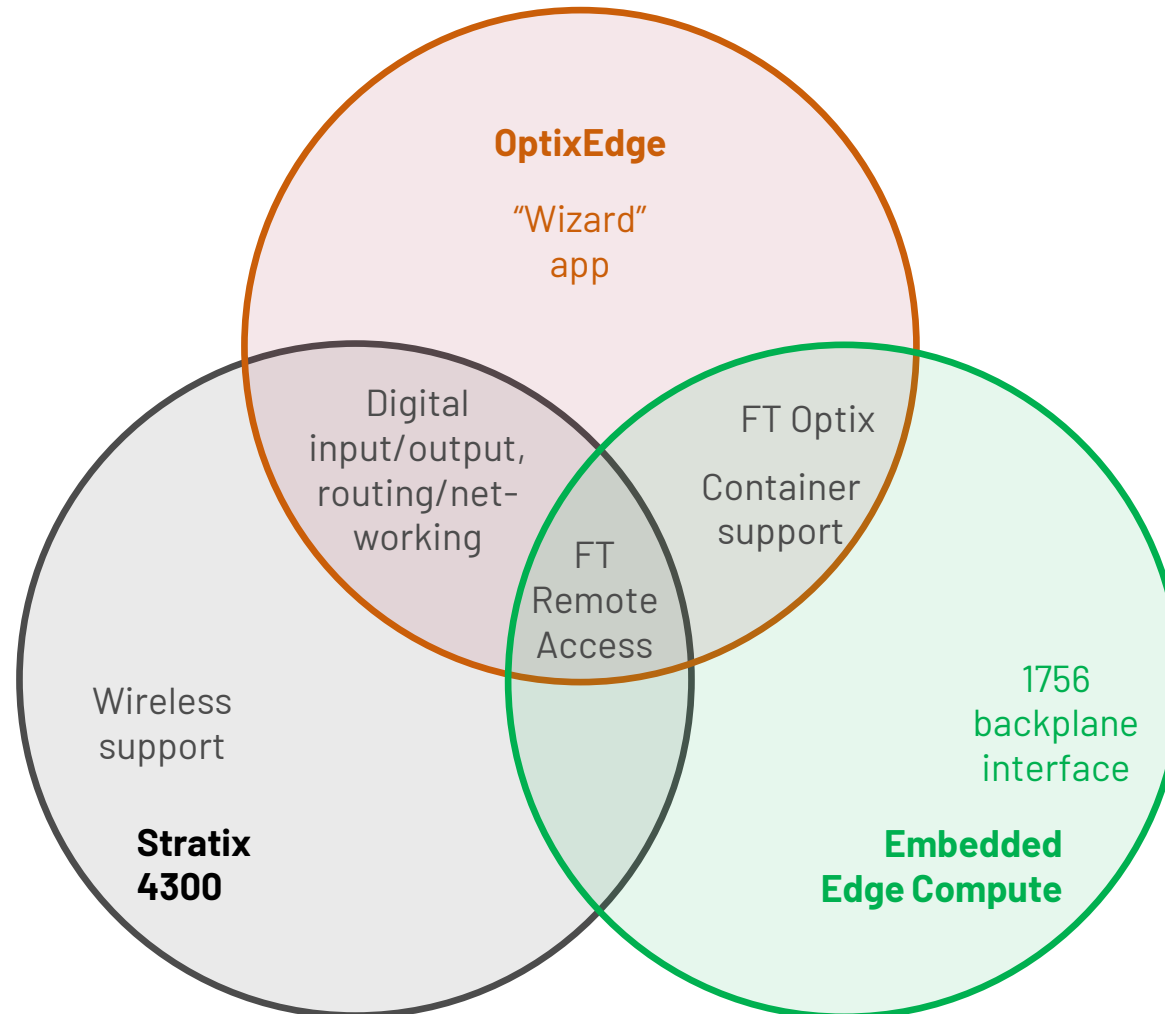
Key similarities and differences between deployment options





Headless Deployment Options for FactoryTalk Optix and Remote Access

Key similarities and differences between *headless* deployment options





| Unlock the Full Potential of the OptixEdge

Outcomes and Use Cases for the OptixEdge

Simplify Data Collection

- Collect data from heterogenous systems
- Collect data from various sources

Improve Operational Efficiency

- Use FactoryTalk Remote Access to securely connect to remote applications for troubleshooting and maintenance

Flexible & Scalable

- Host custom applications that are already developed in a secure closed Operating System via Docker containers

Solution Standardization

- Suitable for both existing (brownfield) and new (greenfield) applications where there is no 1756 backplane availability
- Use in combination with CompactLogix, PanelView, and/or 3rd party controllers



Learn More!

Additional resources where you can find more information about the OptixEdge

Reach out to your Rockwell Automation or Authorized Distributor contact for more information.

Webpage

- [OptixEdge Advanced Edge Gateway](#)

Seismic Content

- [Launch Kit](#)
- [OptixEdge Technical Presentation](#)
- [OptixEdge Commercial Presentation](#)

Documentation

- [OptixEdge Standard User Manual](#)
- [OptixEdge Standard Installation Instructions](#)
- [OptixEdge Technical Data](#)

Wizard App on GitHub

- [Optix_DefaultApplication_OptixEdge](#)

Wizard App Guide

- [OptixEdge - Wizard application](#)



Thank you

www.rockwellautomation.com

