IgnitionEDGE
by inductive automation

Easily Extend Ignition to the Edge of Your Network

Extend Your Network, Not Your Budget

Ignition Edge by Inductive Automation is a line of lightweight, limited, low-cost Ignition software products designed specifically for embedding into field and OEM devices at the edge of the network. With Ignition Edge, it's easier and more affordable than ever to extend Ignition all the way to the edge of your network.

Three Powerful Products

There are three powerful Ignition Edge products, all engineered and priced for the edge of the network.

Ignition Edge MQTT by Cirrus Link

Publish field-device data through MQTT

Ignition Edge Panel

Create local HMIs for field devices

Ignition Edge Enterprise

Synchronize data to a central enterprise sever

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Ignition Edge Features & Benefits

All Ignition Edge products share some powerful features and benefits that make them ideal for the edge of the network.

Access Data from PLCs & OPC UA Servers

For easy PLC connection, all Ignition Edge products come with unlimited tags and are equipped with OPC UA along with the Modbus, Siemens, and Allen-Bradley suite of drivers. Other drivers supported by Ignition, such as DNP3, are available to add onto Ignition Edge products for an additional cost.

Totally Cross-Platform

The Ignition Edge products work on any version of Windows, and on OSX, Linux, and more, so you can install them on virtually any industrial device. With support for ARM processors, Ignition Edge can also run on the latest generation of efficient edge-of-network devices.

Works Seamlessly with Ignition

Ignition is designed to work on central servers and deployed out to multiple clients. Ignition Edge products are designed to be installed on devices at the edge of the network.[1] Using Ignition and Ignition Edge together, you can build scalable and affordable enterprise-wide systems.

Mix and Match Products

Use Ignition Edge Panel, Enterprise, or MQTT on a single device, or mix and match them to create powerful solutions tailored to your needs.[2]

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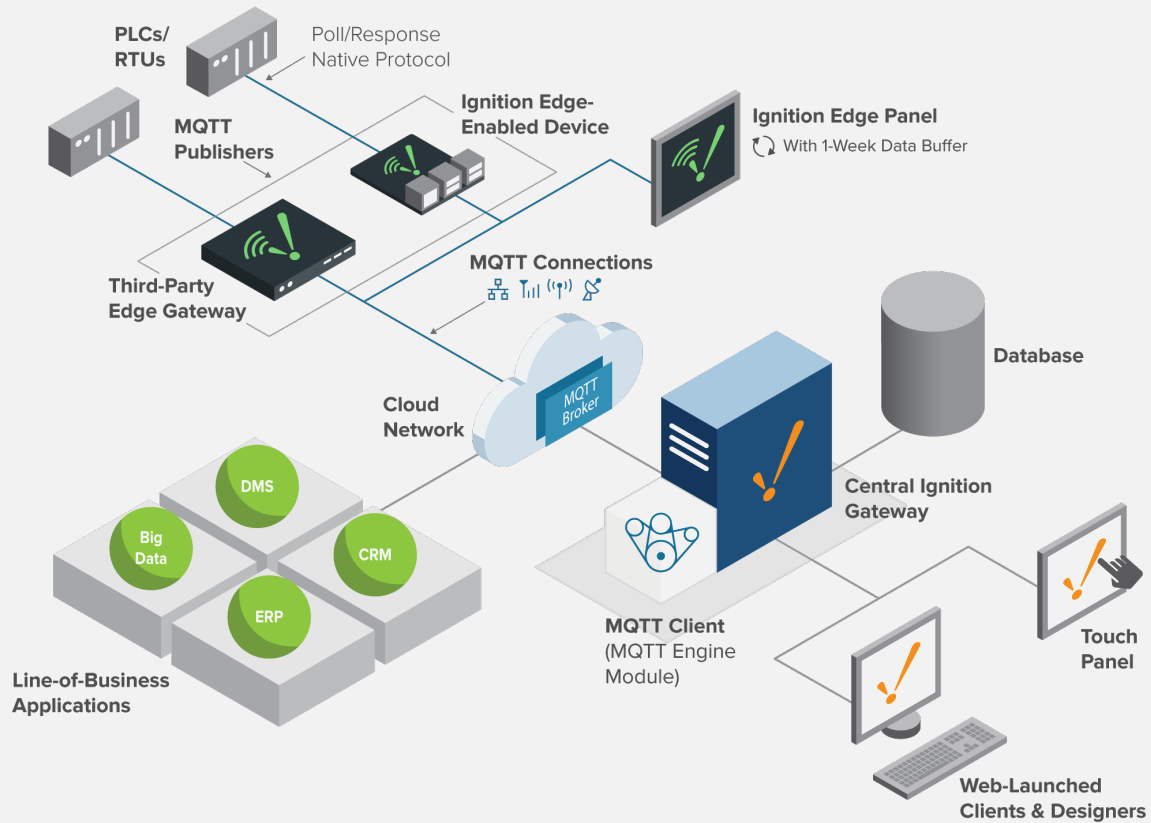by inductive automation

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Ignition Edge MQTT by Cirrus Link

Ignition Edge MQTT by Cirrus Link turns virtually any field device, such as a touch panel or a client terminal, into a lightweight, MQTT-enabled edge gateway that works seamlessly with Ignition IIoT. Ignition Edge MQTT uses the highly efficient MQTT protocol to transmit data to any MQTT broker and supports the Sparkplug data-encoding specification. Cirrus Link Solutions is a third-party Ignition module developer with industry-leading experience in MQTT.

Ignition Edge MQTT: Remote MQTT

Ignition Edge MQTT turns any device, touch panel, rack-mount server, or client terminal, into an edge gateway, with unlimited tags. Edge MQTT converts data from connected PLCs and RTUs into MQTT and publishes it to an MQTT broker in a way that can be easily received by the MQTT Engine Module.

PLCs/RTUs
Poll/Response Native Protocol

MQTT Publishers

Ignition Edge-Enabled Device

Ignition Edge Panel
With 1-Week Data Buffer

Third-Party Edge Gateway

MQTT Connections

Cloud Network

MQTT Broker

Database

Central Ignition Gateway

DMS

Big Data

CRM

ERP

Line-of-Business Applications

MQTT Client
(MQTT Engine Module)

Touch Panel

Web-Launched Clients & Designers

Add Local Client with Edge Panel

Add Edge Panel to create a local client at the edge of the network with one week's worth of data buffering for trending.
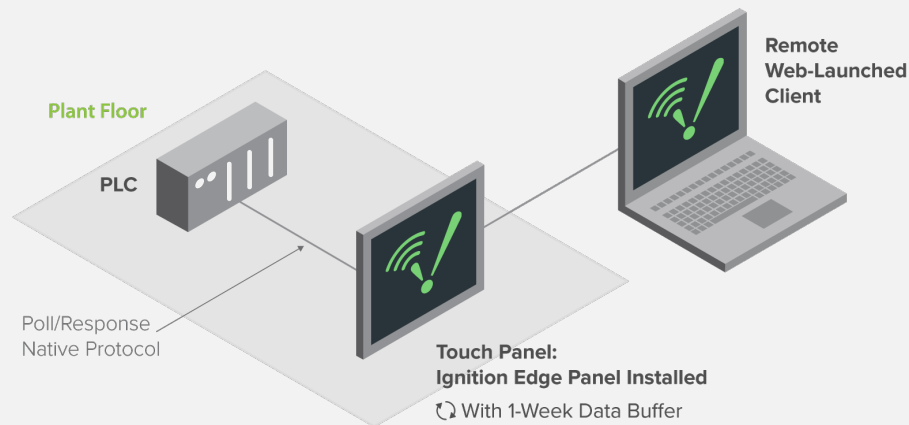
Ignition Edge Panel

Ignition Edge Panel enables edge-of-network HMI functionality with robust Ignition features, including: one local web-launched client, one remote web-launched client, and alarming features including one-way email notification. Ignition Edge Panel includes one week of data buffering[3] for trending and local client fallback for mission-critical applications.

Ignition Edge Architecture: Standalone HMI

Embed Ignition Edge Panel onto a device, such as a touch panel, to provide a stand-alone HMI with local access to an edge-of-network device, with unlimited tags.

Remote Web-Launched Client

Plant Floor

PLC

Poll/Response Native Protocol

Touch Panel: Ignition Edge Panel Installed
↻ With 1-Week Data Buffer

Local Client Fallback

In the event of a failed network connection, a local client re-targets from a central Ignition server and connects to the local Ignition Edge Panel, providing access to one week of data buffering and maintaining local data visualization.
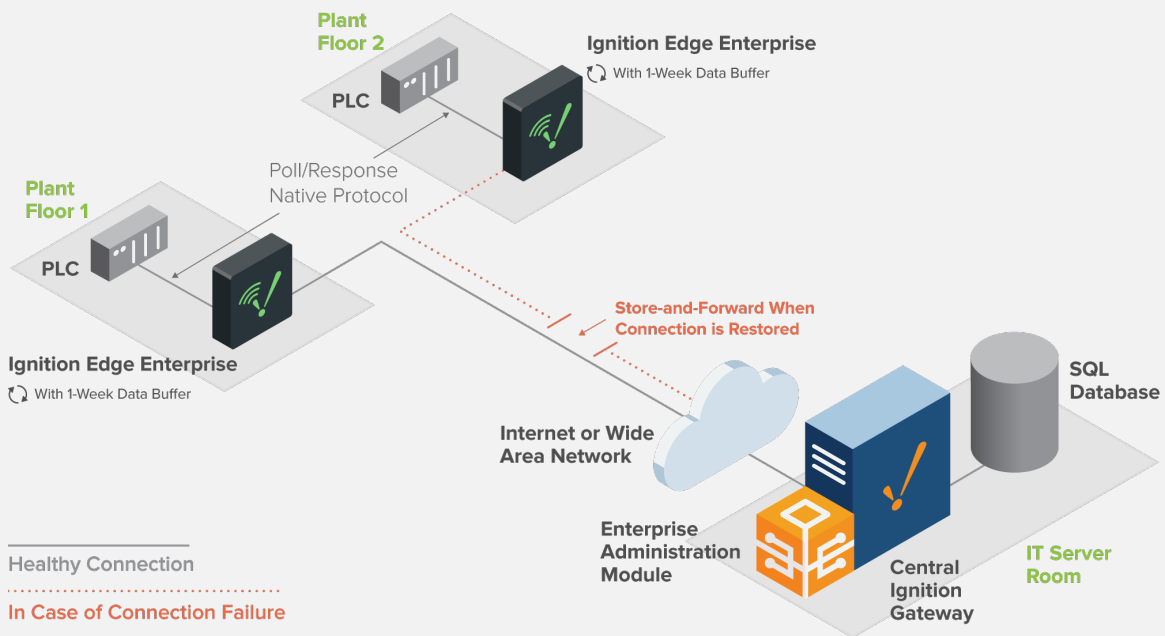
Ignition Edge Enterprise

Ignition Edge Enterprise acts as a limited remote server that synchronizes data from the edge of the network to a central Ignition server. Edge Enterprise has powerful features such as distributed tags, history, and remote alarming built in. Additional features such as remote backup, restoration management, and centralized monitoring of performance and health metrics, are also available if the Ignition Enterprise Administration Module (EAM)[4] is installed on the central Ignition server. Edge Enterprise comes with up to one week of data buffering so it can be used to store-and-forward your data to a central server in case of network failure.

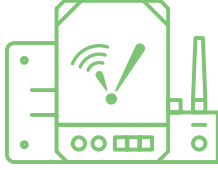## Ignition Edge Architecture: Hub-and-Spoke with Store-and-Forward

The Ignition Edge Enterprise offers local data buffering functionality at the edge of the network, with unlimited tags. If a network connection between Ignition Edge and the central Ignition server (with EAM installed) is severed, Ignition Edge Enterprise will continue to collect historical data for up to one week. When the connection is restored, Ignition Edge Enterprise will synchronize data back to the central Ignition server to maintain data integrity.

Add Local Client Fallback with Edge Panel

By using Ignition Edge Panel together with Edge Enterprise, you can add local client fallback to the store-and-forward functionality of Edge Enterprise, with unlimted tags.

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Pricing

Ignition Edge MQTT by Cirrus Link

$800 USD

Ignition Edge Panel

$1,500 USD

Ignition Edge Enterprise

$500 USD

A minimum purchase or full Ignition Gateway is required.

Bulk pricing is available. For more details, contact us at: **1-800-266-7798**

System Requirements

Supported Operating Systems:
Windows Server 2008/2012
Windows 7, 8, and 10
Ubuntu Linux 12.04 or later
Other Java SE-enabled OSes [5]

Supported MQTT Servers

The MQTT Distributor Module and any server compliant with the 3.1.1 MQTT protocol OASIS standard.

Requirements

Ignition v7.9.2 +
Java SE 8 (server)
Java SE 6, 7, or 8 (client)
1024 MB RAM [6]
1 GB free HD space
MQTT Server(s)

Footnotes

[1] Ignition Edge products cannot be installed on an Ignition Gateway

[2] Ignition Core modules cannot be installed on Ignition Edge products

[3] Edge Panel and Enterprise come with one week of internal data storage do not include database support

[4] Some features of Edge Enterprise require EAM to be installed on the central Ignition Gateway

[5] Ignition is compatible with any Java SE 8-enabled OS. Full support is only offered for listed OSes.

[6] Requirements vary by usage.

To learn more about Ignition Edge, please contact an account representative at: *1-800-266-7798*