

Product Specification Sheet



Edge Computing

Intel® Smart Edge : Edge Node Software

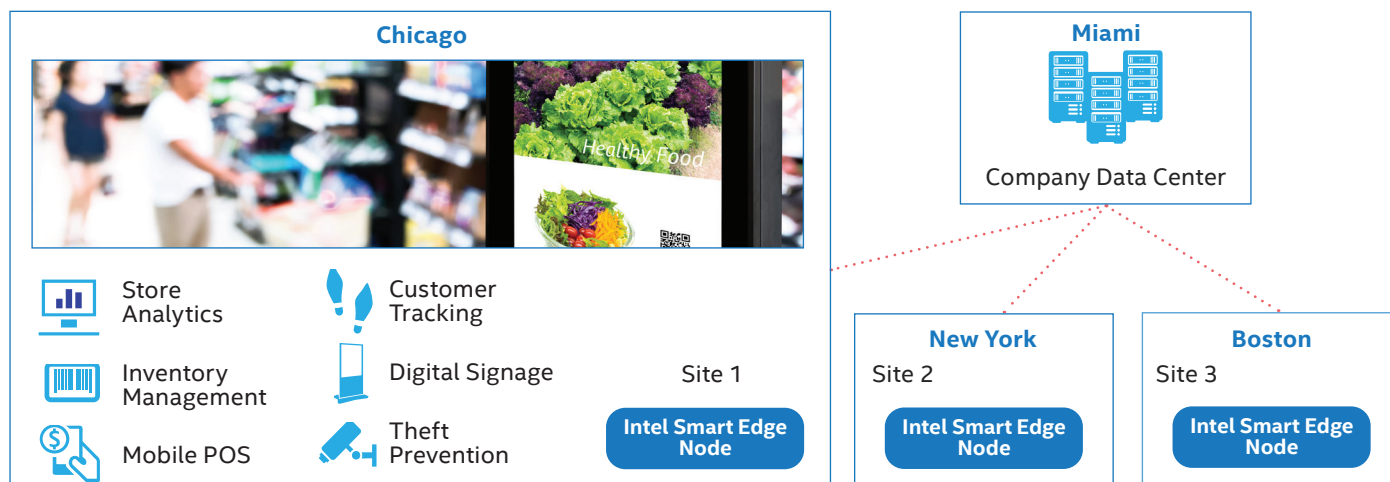
Introduction

The Intel® Smart Edge solution is comprised of several software components in a given deployment. These include Edge Node software that runs on specified hardware and implements Controller software that runs as a container-based application on a general compute platform. The Edge Node software described in this brief deploys at any site requiring the execution of edge compute applications. This could include the locations in a large retail network with hundreds of sites or the factories operated by an industrial enterprise. It can accommodate a network that may have any number of Edge Nodes deployed across an infrastructure based on application hosting requirements. Additionally, the need for access to local data storage and low latency response times drive the need for and placement of Edge Nodes.

Deployment Architecture

Under the direction and control of Controller software, the Edge Node software provides application life-cycle management, comprehensive zero-trust security, operational telemetry, policy enforcement, data routing and hardware management for applications, virtual machines and containers at the network edge. Edge Nodes can be deployed on hardware based on Intel® Architecture in customer premise locations. These edge locations include, but are not limited to, sites such as: retail branch locations, stadiums and venues, and health care facilities.

The Intel Smart Edge Node software supports all access topologies including wired and wireless. This flexibility enables a broad array of environments including Private LTE and Citizens Broadband Radio Service (CBRS). Increasingly, enterprises require the manageability and predictability that is only available with licensed and managed radio spectrum. The diagram below shows an example deployment where Edge Nodes were deployed in Chicago, Boston and New York to run local edge applications, interoperating with the corporate data center in Miami if required.



Specifications

Edge Node software operates on Intel Architecture hardware. Intel has qualified a number of generally available compute platforms for use. Ask your Intel representative for the latest inventory of certified hardware platforms. The minimum requirements include:

- Intel 64-bit processor with four cores
- 8GB DRAM
- 128GB SSD
- Intel NIC Controller with Data Plane Development Kit (DPDK)
- Two 1GbE physical interfaces
- Trusted Platform Module (TPM) 2.0

Ordering Information

Edge Node software can be ordered to suit the number of devices connected through the LTE function. In the case that LTE function is not required, there is a Base product code for such applications. The table below includes the ordering details:

Product Code	Description
SE-STNDRD-15	Standard Option Package with support for 15 UEs.
SE-STNDRD-50	Standard Option Package with support for 50 UEs.
SE-STNDRD-100	Standard Option Package with support for 100 UEs.
SE-STNDRD-250	Standard Option Package with support for 250 UEs.
SE-Base	Standard Option Package with support for wired and WiFi.

Find more information

To learn more about the Intel Smart Edge solution, please contact us at smartedge@intel.com.



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No product or component can be absolutely secure.

Your costs and results may vary.

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