GIGAIPC

EL-30-4200/3350 (rev. 1.0)

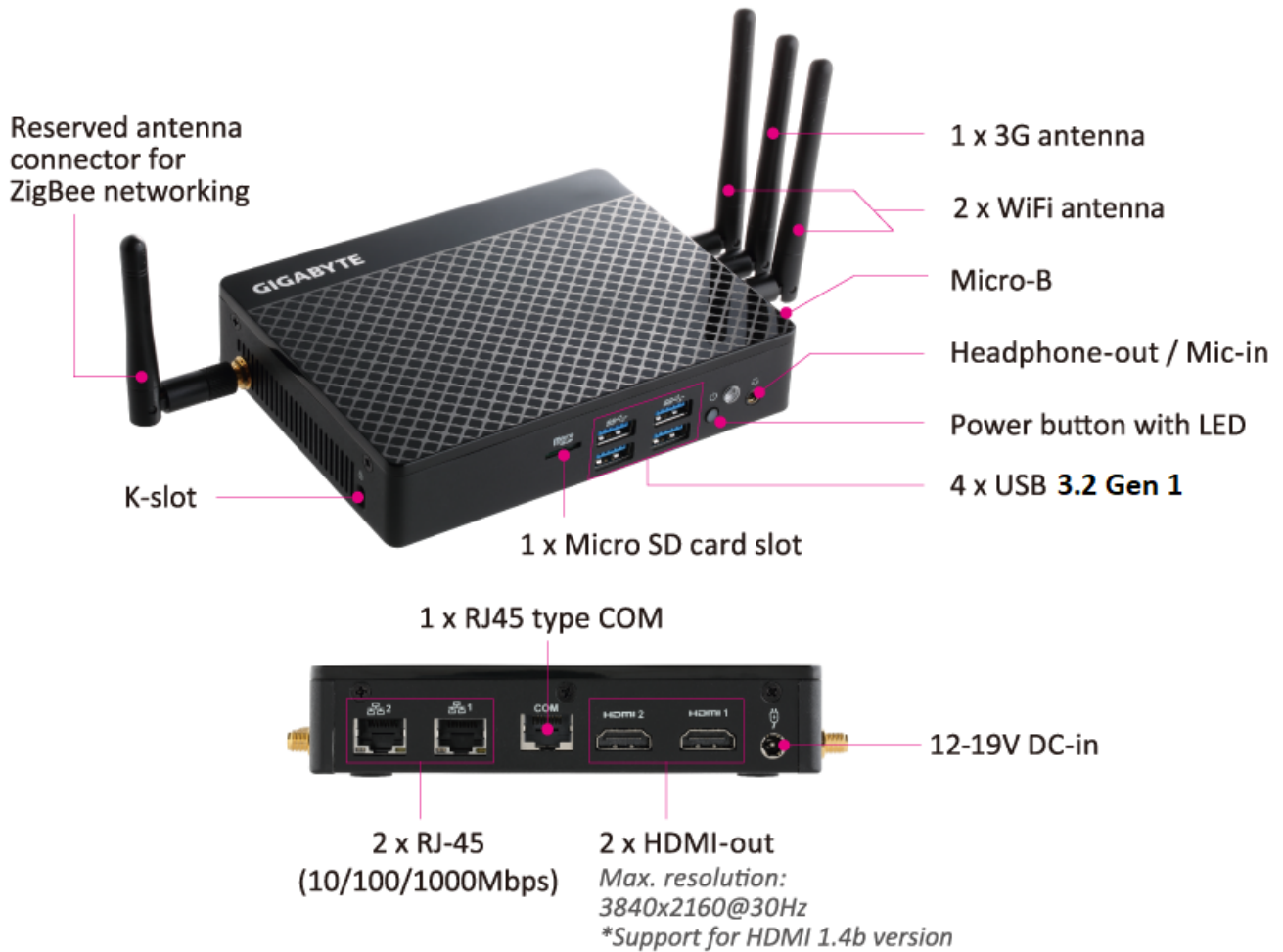Intel® Apollo Lake IoT Gateway Solution

Key Features

- Intel® Pentium® N4200 processor
- 32GB onboard eMMC memory
- 2 x SO-DIMM DDR3L slots
- 2 x GbE LAN Ports (Realtek® RTL8111HS)
- 2 x HDMI Ports
- 1 x Full-size Mini-PCIe slot for 3G module or mSATA storage
- 1 x Micro SD card slot
- Compatible with Windows 10 IoT 64bit and Ubuntu 16.04 LTS

Application

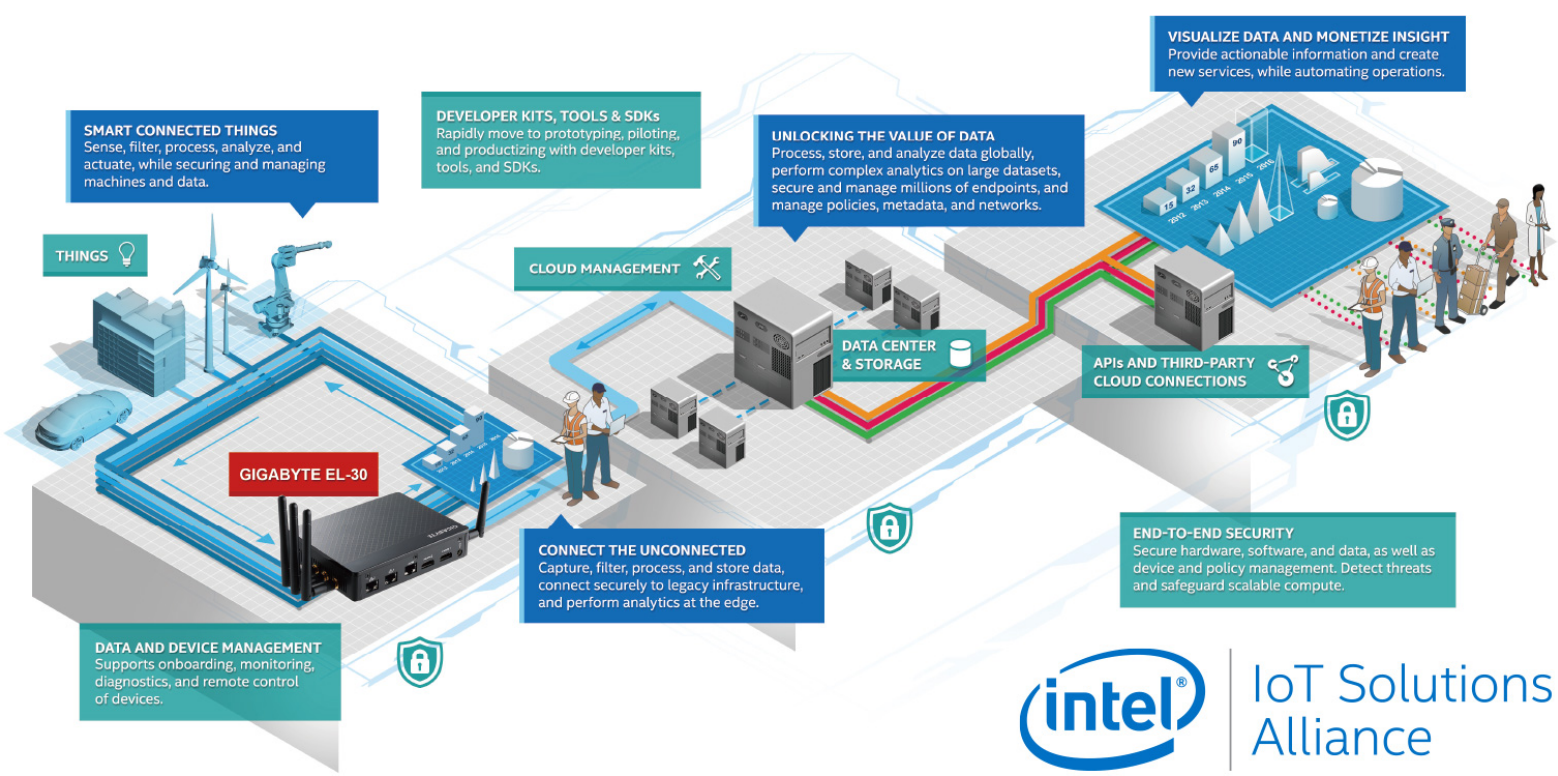- IoT applications
- Commercial PC System

EL-30 IoT Gateway System Overview

Reserved antenna connector for ZigBee networking

1 x 3G antenna

2 x WiFi antenna

Micro-B

Headphone-out / Mic-in

Power button with LED

4 x USB **3.2 Gen 1**

K-slot

1 x Micro SD card slot

1 x RJ45 type COM

2 x RJ-45 (10/100/1000Mbps)

2 x HDMI-out
Max. resolution: 3840x2160@30Hz
Support for HDMI 1.4b version

12-19V DC-in

Simple Devices for the IoT Era

Being an associate member of the **Intel IoT Solutions Alliance**, GIGAIPC (GIGABYTE Group) is at the heart of the booming Internet of Things computing market. We create reference designs for Intel's new platforms, and develop them further into large ranges of products for IoT professionals. It is a small form factor industrial computer, with all the features and flexibility required to be a perfect IoT gateway solution bringing unconnected legacy systems and aggregate their data output.

SMART CONNECTED THINGS
Sense, filter, process, analyze, and actuate, while securing and managing machines and data.

DEVELOPER KITS, TOOLS & SDKs
Rapidly move to prototyping, piloting, and productizing with developer kits, tools, and SDKs.

UNLOCKING THE VALUE OF DATA
Process, store, and analyze data globally, perform complex analytics on large datasets, secure and manage millions of endpoints, and manage policies, metadata, and networks.

VISUALIZE DATA AND MONETIZE INSIGHT
Provide actionable information and create new services, while automating operations.

THINGS

CLOUD MANAGEMENT

DATA CENTER & STORAGE

APIs AND THIRD-PARTY CLOUD CONNECTIONS

GIGABYTE EL-30

CONNECT THE UNCONNECTED
Capture, filter, process, and store data, connect securely to legacy infrastructure, and perform analytics at the edge.

END-TO-END SECURITY
Secure hardware, software, and data, as well as device and policy management. Detect threats and safeguard scalable compute.

DATA AND DEVICE MANAGEMENT
Supports onboarding, monitoring, diagnostics, and remote control of devices.

intel® | IoT Solutions Alliance

Specification

Dimension	140.8W x 107.5D x 29.5H mm
CPU	Intel® Pentium® N4200 processor 14nm, 4 cores, 4 threads 1.10 - 2.50 GHz 2MB L2 cache 6W max. TDP * Intel® Celeron® processor N3350 is available for optional sku
Socket	1 x BGA 1296
Memory	2 x SO-DIMM slots 1.35V DDR3L memory Up to 8GB, dual channel 1600/1866MHz Pre-installed DDR3L memory module
Flash Memory	32GB eMMC
LAN	2 x GbE LAN Ports (Realtek® RTL8111HS)
Graphic Support	Integrated in the SoC - Intel® HD Graphics 505 2 x HDMI ports, supporting a maximum resolution of 3840x2160 @30Hz * Support for HDMI 1.4b version
Audio	Realtek® Audio Codec

Storage	1 x Micro SD card slot
Expansion Slots	1 x Full-size Mini-PCIe slot (for 3G module or mSATA storage) 1 x Zigbee module supported in option 1 x M.2 slot: - E-key - PCIe Genb2x1 - Pre-installed Wifi module
Front I/O	4 x USB 3.2 Gen 1 1 x Micro SD card slot 1 x Audio combo Jack (Headphone-out / MIC-in) 1 x Power button with LED 1 x HDD/SSD activity LED
Rear I/O	2 x RJ45 LAN Ports 2 x HDMI 1 x COM Port (RS-232/485)(RJ45 type) 1 x DC-in
Side I/O	1 x Micro-B 5-pin *RS232 full-duplex port (TxD, RxD, CTS, RTS, GND) *[NOTE]: 1. Please check the pin definition and ensure the port is suitable for your peripherals. 2. The serial driver GIGABYTE provided for Windows 10 is a trial version, please contact your peripheral vendor to get the correct driver.
TPM	1 x TPM header
Power	AC 100~240V 19V DC-in 65W / 3.42A
OS Compatibility	Windows 10 64bit Windows 10 IoT 64bit Ubuntu 16.04 LTS
Operation Temperature	Operating temperature: 0°C to 40°C Operating humidity: 0%-90% (non-condensing) Non-operating temperature: -20°C to 60°C Non-operating humidity: 0%-95% (non-condensing)
Weight	560g
Packaging Content	1 x Quick start guide 1 x EL30 system 1 x 19V AC/DC power adapter 1 x US type power cord * Please contact region sales for antenna modules
System Fans	Fanless
Motherboard	MZAPLFP
Order Information	9BTCV9WMR-SI