



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

Intel® Apollo Lake IoT Gateway Solution

### Key Features

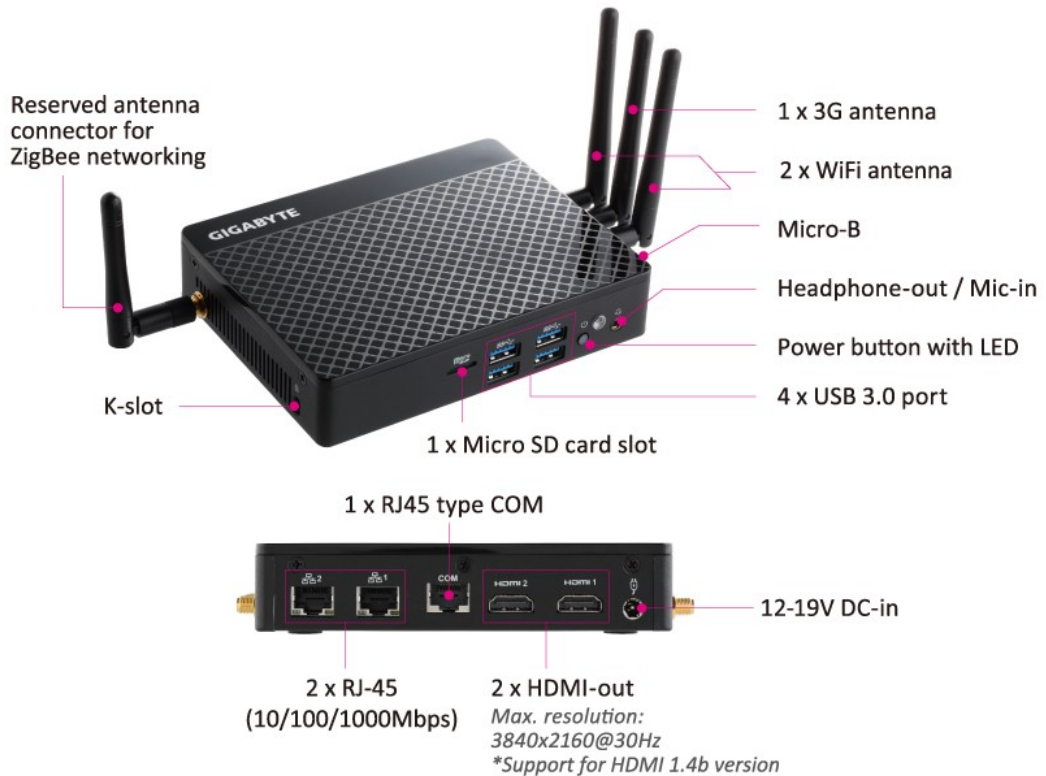
- Intel® Pentium® processor N4200
- 32GB onboard eMMC memory
- 2 x SO-DIMM DDR3L slots
- 2 x GbE LAN ports (Realtek RTL8111HS)
- 2 x HDMI ports
- 1 x Full-size Mini-PCIe slot for 3G module or mSATA storage
- 1 x Micro SD card slot
- Compatible with Windows 10 IoT 64bit and Ubuntu 16.04 LTS

### Application

- IoT applications
- Commercial PC System

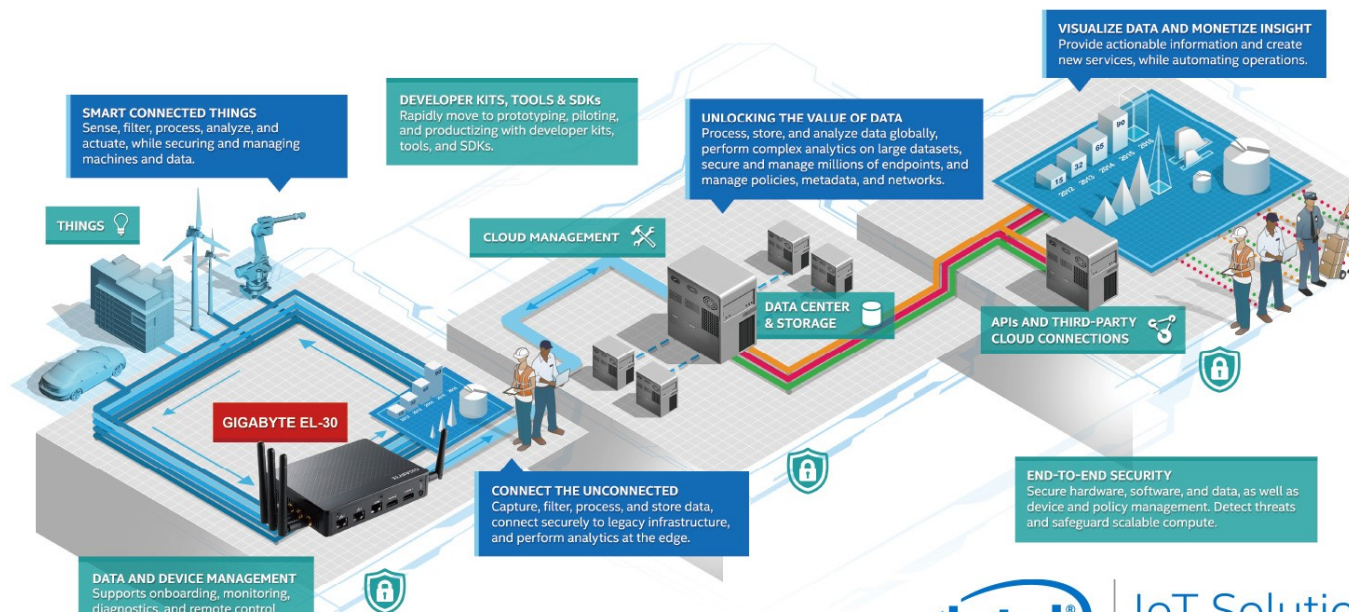
## SPECIFICATION

### EL-30 IoT Gateway System Overview



### 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.



<b>OPERATING PROPERTIES</b>	<p>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)</p>
<b>CPU</b>	<p>Intel® Pentium® processor N4200          4 cores, 4 threads          1.10 - 2.50 GHz          2MB L2 cache          6W max. TDP</p> <p>* Intel® Celeron® processor N3350 is available for optional sku</p>
<b>SOCKET</b>	1 x BGA 1296
<b>MEMORY</b>	<p>2 x SO-DIMM slots          1.35V DDR3L memory          Up to 8GB, dual channel          1600/1866MHz</p> <p>Pre-installed DDR3L memory module</p>
<b>FLASH MEMORY</b>	32GB eMMC
<b>LAN</b>	2 x GbE LAN ports (Realtek RTL8111HS)
<b>VIDEO</b>	<p>Integrated in the SoC - Intel® HD Graphics 505          2 x HDMI ports, supporting a maximum resolution of 3840x2160@30 Hz          * Support for HDMI 1.4b version</p>
<b>AUDIO</b>	Realtek ALC255
<b>EXPANSION SLOTS</b>	<p>1 x Full-size Mini-PCIe slot (for 3G module or mSATA storage)          1 x Zigbee module supported in option</p> <p>1 x M.2 slot:          - E-key          - PCIe Gen2 x1          - Pre-installed Wifi module</p>
<b>REAR I/O</b>	<p>1 x DC-in          2 x HDMI          2 x RJ45          1 x RJ45 type COM (RS485 / 232)</p>
<b>TPM</b>	1 x TPM header
<b>OS COMPATIBILITY</b>	<p>Windows 10 64bit          Windows 10 IoT 64bit          Ubuntu 16.04 LTS</p>
<b>POWER SUPPLY</b>	<p>AC 100~240V          19V DC-in          65W / 3.42A</p>

<b>PACKAGING CONTENT</b>	<p>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</p>
<b>ORDERING INFORMATION</b>	9BTCV9WMR-SI
<b>STORAGE</b>	1 x Micro SD card slot
<b>FRONT I/O</b>	<p>4 x USB 3.0  1 x SD card slot  1 x Audio combo jack (Headphone-out / MIC-in)  1 x Power button with LED  1 x HDD/SSD activity LED</p>
<b>SYSTEM FANS</b>	Fanless
<b>DIMENSION</b>	140.8 x 107.5 x 29.5 mm
<b>MOTHERBOARD</b>	MZAPLFP
<b>WEIGHT</b>	560g
<b>SIDE I/O</b>	<p>1 x Micro-B 5-pin *RS232 full-duplex port ( TxD, RxD, CTS, RTS, GND)</p> <p>*[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 periphera vendor to get the correct driver.</p>