

IGT-124

Industrial-grade x86-based IIoT Gateway with Dual Gigabit Ethernet LAN, 4 COM, 4 USB and Pre-installed Debian



CE FC

Key Features

- Intel® Atom™ E3826 1.46GHz dual-core processor
- Rugged, wide temperature range from -25°C to 70°C fanless operation
- Two Gigabit Ethernet LAN ports
- Up to two RS-232/422/485 ports and two RS-232 ports
- Compact design with 150 mm x 100 mm foot-print

Contact Neosys

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Preliminary

Introduction

IGT-124 is an x86-based industrial-grade IoT gateway that accepts wide DC voltage input range from 8 to 35VDC and supports wide operating temperature from -25°C to 70°C. As a member of Neosys IGT series, IGT-124 is shipped as a complete system with pre-installed Intel® Atom™ Bay Trail, DDR3L RAM, data storage capacity and Ubuntu operating system.

To acquire data, IGT-124 features 4 COM, 4 USB and 2 Gigabit Ethernet ports to connect to a variety of industrial devices. It also has a DVI-I connector for video output, allowing it to display dashboard statistics or aid in maintenance, if necessary. For ease of deployment, IGT-124 can choose between two mounting options, wall or DIN-rail mounting. Of the two, the DIN -rail kit provides a rugged clamping force to resist vibration and shock during operation. Communication wise, IGT-124 provides a PCIe mini socket for WiFi or LTE modules. Neosys offers an LTE connectivity solution that is pre-certified to operate on AT&T and Verizon networks.

Besides the standard hardware design, Neosys also provides a highly customizable service with IGT-124. Customizations such as CIS branding, color bands on the chassis, preloaded IIoT software or customize a tailor-made OS image. This service not only offers greater capability and compatibility for deployment but also a more personalized solution matching your company's image and specific needs.

As with the nature of industrial IoT applications, the gateway will be expected to and is more than capable of operating 24/7 in extreme or harsh environments for fragmented applications. The reliable hardware design and open-source software development environment make IGT-124 an effective and quick time-to-market solution that requires minimum human intervention for a variety of industrial IoT applications.

Specifications

System Core

| | |
|-----------|---|
| Processor | Intel® Atom™ E3826 1.46 GHz dual-core processor |
| Graphics | Integrated Intel® HD Graphics |
| Memory | Single-slot pre-installed 2GB SODIMM DDR3L-1333 |
| Storage | 1x 32GB 2.5" SSD |

Panel I/O Interface

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|-------------|---|
| Ethernet | 2x Gigabit Ethernet ports by Intel® I210 GbE controller |
| Video Port | VGA and DVI dual display outputs via DVI-I connector, supporting up to 2560 x 1600 resolution |
| Serial Port | 2x software-programmable RS-232/422/485 (COM1 & COM3), 2x RS-232 (COM2 & COM4) |
| USB 3.1 | 1x USB 3.0 ports |
| USB 2.0 | 3x USB 2.0 ports |

Expansion Bus

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| Mini-PCIe | 1x mini PCI Express slot with USIM socket |
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Power Supply

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| DC Input | 1x 2-pin pluggable terminal block for built-in 8~35 VDC DC input |
|----------|--|

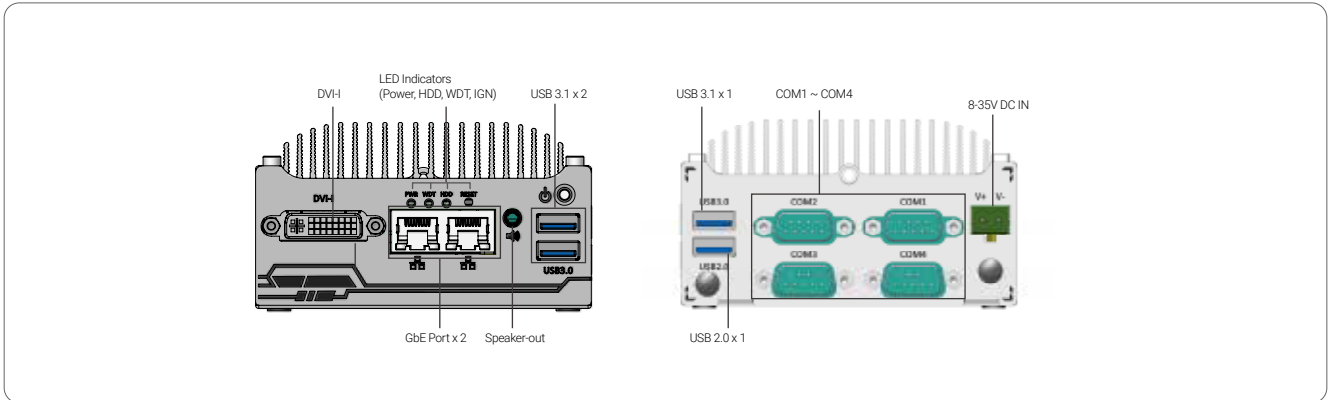
Mechanical

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|-----------------------|-------------------------------------|
| Dimension (W x D x H) | 149 mm (W) x 105 mm (D) x 58 mm (H) |
| Weight | 1.0 kg |
| Mounting | Optional wall and DIN-rail mounting |

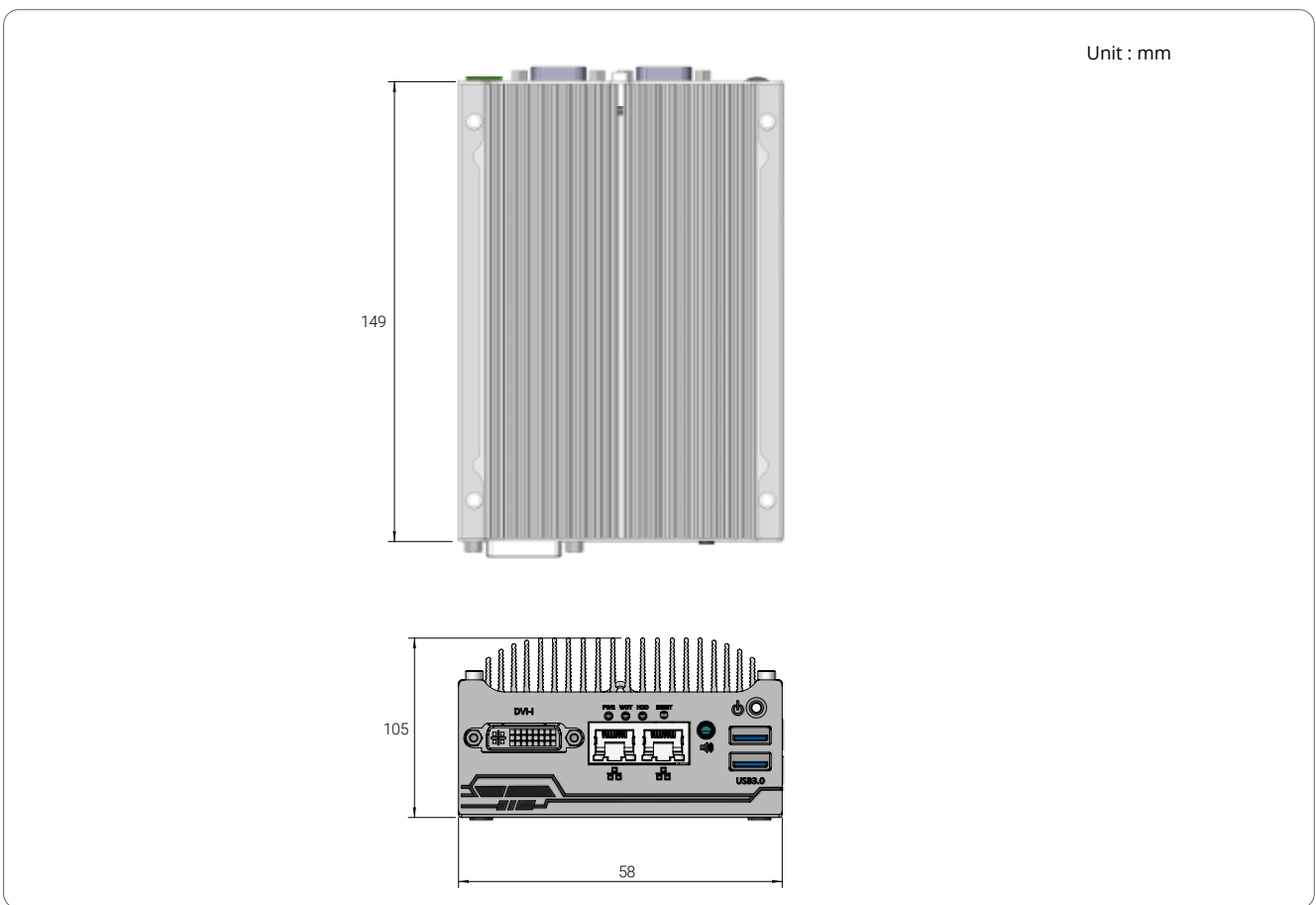
Environmental

| | |
|-----------------|---|
| Operating Temp. | -25°C ~ 70°C with SSD , 100% CPU loading |
| Storage Temp. | -40°C ~85°C |
| Humidity | 10%~90% , non-condensing |
| Vibration | Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64) |
| Shock | Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27) |
| EMC | CE/FCC Class A, according to EN 55024 & EN 55032 |

Appearance



Dimensions



Ordering Information

| Model No. | Product Description |
|-----------|---|
| IGT-124 | Industrial grade x86-based IIoT Gateway with 2 Gigabit Ethernet LAN ports, 4 COM ports, 4 USB ports |

Optional Accessories

| | |
|-----------|---|
| PA-60W-OW | 60W AC/DC power adapter with 12V, 5A DC output, cord end terminals for terminal block. operating temperature: -30 to 60 °C. |
|-----------|---|

Optional Cellular Module

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|---------------|----------------------------------|
| NSIO-LTE-7455 | Cat. 6 LTE embedded socket modem |
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