

IGT-33V/ IGT-34C

TI Sitara™ AM3352 ARM-based Industrial IoT Gateway with Analog Inputs and Pre-installed Debian



CE FCC

Key Features

- Industrial grade ARM-based system with pre-installed Debian
- Built-in isolated analog input and DI/O channels
- Dual LAN and COM ports for expand
- 12 to 25V wide-range DC input and 802.3at PoE+ PD
- -25°C to 70°C wide temperature operation

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Introduction

Neosys IGT-30 series, equipped with AM3352 from Texas Instrument's Sitara AM335x family, is an ARM-based Box PC aimed at Industrial Internet of Things (IIoT) Gateway and Industry 4.0 applications. As required by any industrial applications, IGT-30 series is shipped as a ready system pre-installed with Debian and in compliance with common industrial certifications such as CE/FCC, shock and vibration. It has a power input range of 12 to 25 VDC and a wide operating temperature from -25°C to 70°C to ensure IGT-30 series continues to function under harsh industrial conditions.

IGT-33V/ 34C have rich I/Os for users to connect to a variety of industrial sensors and devices. It features one USB 2.0 port, dual 10/100M LAN ports and two COM ports (one RS-485, one configurable RS-232/422/485). In addition, IGT-33V/ 34C also integrate analog and digital ports, such as eight 0-10V voltage inputs for IGT-33V and four 4-20mA current inputs for IGT-34C. There are also two built-in isolated digital inputs for button/switch and six digital outputs for actuators or modules control. User can easily build their own private serial automation or IIoT system.

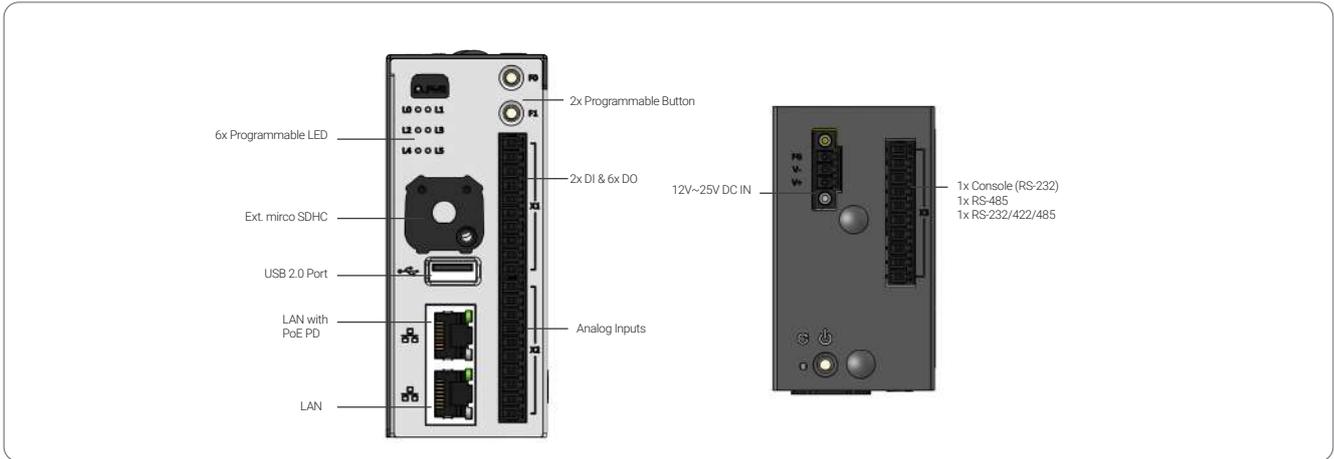
Communication wise, IGT-30 series has a mini PCIe slot and a USIM holder allowing it to transmit acquired data and system status via 3G, 4G or WiFi (mini PCIe WiFi module). There is an opening on top of IGT-30 series for users to mount the SMA connector of the wireless module. In terms of storage, IGT-30 series has dual microSDHC slots, one internal and one external. This design allows users to separate system/ user data and can expedite in OS deployment for mass production. Inherited from IGT-20, IGT-30 series provides six LED indicators and two function buttons that can be programmed by users. The function buttons can act as controls for IGT-30 series and exclude the need for external input devices, such as keyboard/ mouse.

Specifications

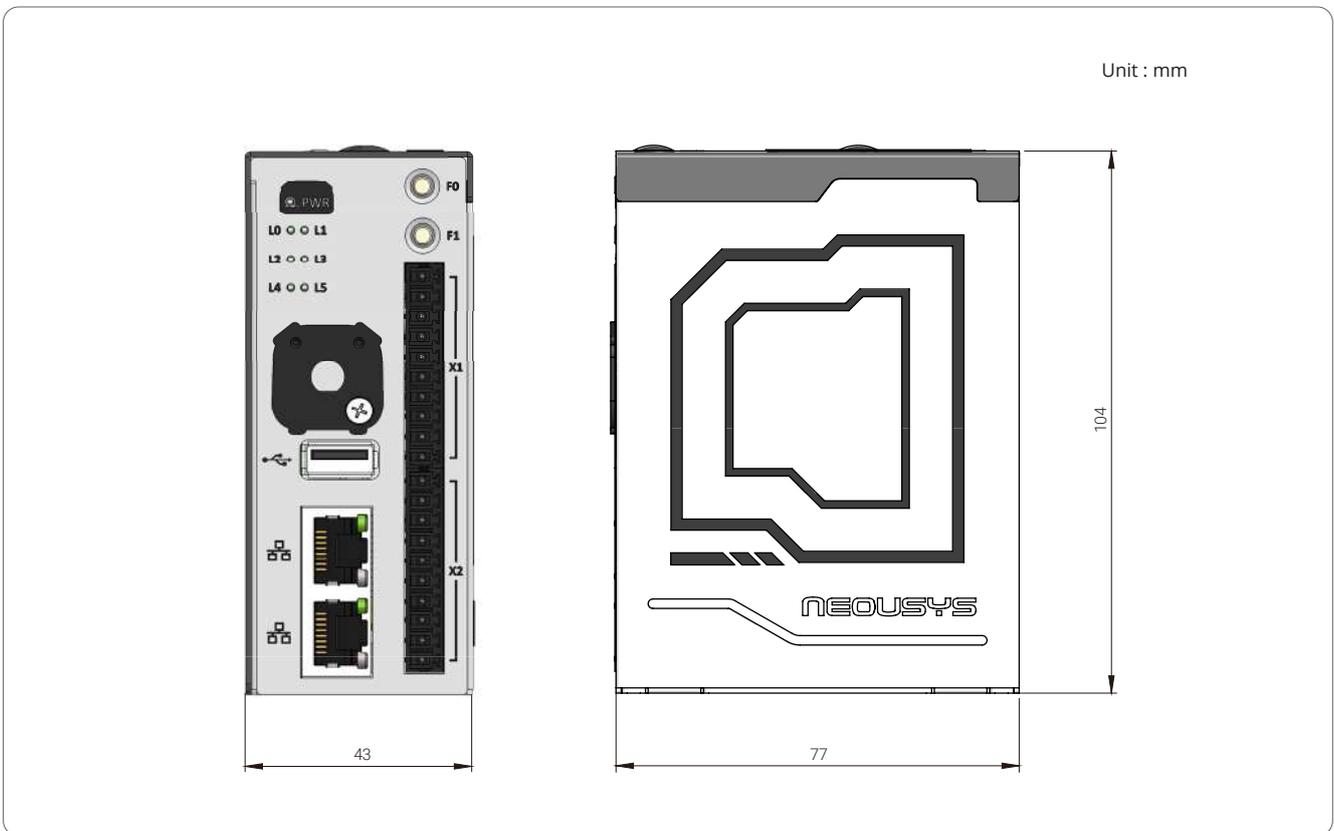
| | IGT-33V | IGT-34C | | IGT-33V | IGT-34C |
|----------------------------------|--|--|-------------------------------|--|---------|
| System Core | | | Internal I/O Interface | | |
| Processor | TI Sitara AM3352 1GHz processor | | SD Card | 1x internal T-flash socket support micro SDHC | |
| Memory | 1GB DDR3L SDRAM | | mPCIe | 1x full size mPCIe | |
| Front-panel I/O Interface | | | SIM Card | 1x internal SIM socket | |
| Ethernet | 2x 10/100 LAN, 1 with PoE PD | | Software | | |
| USB 2.0 | 1x USB 2.0 | | Operating System | Debian 9 pre-installed | |
| SD Card | 1x external T-flash socket support micro SDHC | | Power Supply | | |
| Function Buttons | 2x user programmable buttons | | DC Input Range | 12~25V DC | |
| User LEDs | 6x user programmable LEDs | | PoE+ PD | IEEE 802.3at PoE+ PD | |
| Isolated DIO | 2x digital input 6x digital output | | Mechanical | | |
| Analog Input | 8x 16 bit 0-10V/ ±5V/ ±10V Voltage Input | 4x 16 bit 4-20mA/ 0-20mA Current Input | Dimension | 43mm (W) x 77mm (D) x 104mm (H) | |
| Top I/O Interface | | | Weight | 0.5 Kg | |
| DC-in | 1x DC-input connector | | Mounting | DIN-rail mount | |
| Power Button | 1x power button | | Mechanical | | |
| Reset Button | 1x reset button | | Operating Temperature | -25°C~70°C * | |
| Console | 1x RS-232 as Console Port | | Storage Temperature | -40°C~85°C | |
| Serial Port | 1x RS-232/422/485 1x RS-485 | | Humidity | 5Grms | |
| Antenna Hole | 2x antenna hole for WiFi and 3G/LTE | | Shock | 50Grms | |
| | | | EMC | CE/FCC Class A, according to EN55032 & EN55024 | |

* For sub-zero operating temperature, a wide temperature microSD module is required.

Appearance



Dimensions



Ordering Information

| Model No. | Product Description |
|-----------|--|
| IGT-33V | Industrial grade ARM-based IoT gateway with 0-10V analog inputs, dual LAN and PoE PD enable |
| IGT-34C | Industrial grade ARM-based IoT gateway with 4-20mA analog inputs, dual LAN and PoE PD enable |

Optional Cellular Module

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