Intended for Industrial Internet of Things (IIoT) Gateway and Industry 4.0 applications, Neousys IGT-30 series is equipped with AM3352 from Texas Instrument’s Sitara AM335x family, an ARM-based Box PC that runs Debian. It is pre-installed with Debian and is certified (CE/FCC, shock, and vibration) for use in harsh industrial conditions. It has 12 to 25V wide-range DC input and PoE+ PD, operating from -25°C to 70°C.

IGT-30 series supports PoE PD mode, allowing it to be powered by a LAN cable from a PoE Power Sourcing Equipment (PSE) whilst transferring data at the same time. IGT-30 series has I/Os that are suitable for a range of industrial grade sensors and actuators. It features one USB 2.0 port, two 10/100M LAN ports, one configurable COM port (RS-232/422/485) and an optional CAN bus port (IGT-31D only). There are also two built-in isolated digital output channels to control actuators and indicators.

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 are two openings 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.

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.

System Core
- Processor: TI Sitara AM3352 1GHz processor
- Memory: 1GB DDR3L SDRAM

Front-panel I/O Interface
- Ethernet: 2x 10/100 LAN
- SD Card: 1x external T-flash socket support microSDHC
- USB: 1x USB 2.0
- Isolated DI/O: 8-CH isolated DI and 2-CH isolated DO
- Serial Port: 1x software configurable RS-232/422/485
- User LEDs: 6x user programmable LEDs
- Function Buttons: 2x user programmable buttons
- CAN: 1x isolated CAN bus 2.0 A/B (IGT-31D only)

Top I/O Interface
- DC-in: 1x DC-input connector
- Power Button: 1x power button
- Reset Button: 1x reset button
- Console: 1x RS-232 as Console Port
- Antenna Hole: 2x antenna hole for WiFi and 3G/ LTE

Internal I/O Interface
- mPCIe: 1x full size mPCIe
- SD Card: 1x internal T-flash socket support microSDHC
- SIM Card: 1x internal SIM socket

Software
- Operating System: Debian 9 pre-installed

Power Supply
- DC input range: 12-25V DC
- PoE+ PD: IEEE 802.3at PoE+ PD

Mechanical
- Dimension: 43mm(W) x 77mm(D) x 104mm(H)
- Weight: 0.5 Kg
- Mounting: DIN-rail mount

Environmental
- Operating Temperature: -25°C to 70°C *
- Storage temperature: -40°C to 80°C *
- Humidity: 10%–90%, non-condensing
- Vibration: 5Grms
- Shock: 50Grms
- EMC: CE/FCC Class A, according to EN55032 & EN55024

* For sub-zero operating temperature, a wide temperature microSD module is required.
**Model No.** | **Product Description**  
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IGT-30D | Industrial grade ARM-based IoT gateway with dual LAN and PoE PD enabled  
IGT-31D | Industrial grade ARM-based IoT gateway with dual LAN, CAN bus and PoE PD enabled

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**Optional Cellular Module**

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