

IGT-20 IOT GATEWAY

IGT-21

IoT gateway with 4DI, 4DO and CAN bus

- Extremely compact
- ARM/Linux-based
- Wide temperature range -25...+70°C
- Extensive I/Os
- Supports wireless connections



PRODUCT DESCRIPTION

Neosys IGT-20 is a compact IoT Gateway that is aimed at industrial Internet of Things (IIoT) and Industry 4.0 applications. Unlike System on Module (SoM) that's commonly provided as a barebone component, IGT-20 is based on AM3352 processor from Texas Instrument's Sitara family and will be shipped as a ready system pre-installed with Debian. The industrial nature of IGT-20 means it is in compliance with common industrial certifications such as CE/FCC, shock and vibration. Another distinction IGT-20 has over SoM is that it accepts a wider range of power inputs ranging from 8 to 25 VDC (SoM usually accepts 5 VDC).

IGT-20 has I/Os that are applicable to a range of industrial grade sensors. It features one USB2.0, one 10/100M LAN, two configurable COM ports (RS-232/422/485) and an optional CAN bus port. In addition to the ports mentioned, there are 4 built-in isolated digital input channels that accept discrete signals from various sensors or buttons/ switches. There are also four built-in isolated digital output channels to control actuators and indicators.

Communication wise, IGT-20 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-20 for users to mount the SMA connector of the wireless module. In terms of storage, IGT-20 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. As a gateway, users can take advantage of six programmable status LED indicators and two control buttons to operate IGT-20 without using a keyboard/ mouse.

SPECIFICATIONS

CAN	1x CAN bus 2.0 A/B
Depth	77 mm
Hard Drive Interface - Mini-Pcie	1x full size mPCIe (USB2.0)
Height	104 mm
I / O Ports - Connection	4+4 channel isolated digital I/O
I / O Ports - Ethernet Port	1x 10/100M Ethernet
I / O Ports - LED Lighting Control	6x user programmable LED
I / O Ports - Serial	2x user configurable RS-232/ 422/ 485
I / O Ports - USB	1x USB2.0
Interface	2x user configurable button, 1x Power, 1x Reset
Memory RAM	1 GB

Mounting	DIN-rail mount
Operating	Debian 8
Processor	TI Sitara AM3352 1GHz
Remote control	Console port (RS-232) or Ethernet (SSH)
Supply Voltage DC Max	25 V DC
Supply Voltage DC Min	8 V DC
Temperature range from	-25 °C
Temperature range to	70 °C
Type of memory	DDR3L SDRAM
Weight	0.4 kg
Width	41 mm

