

Rugged Embedded



IGT-20/ IGT-21/ IGT-22

Industrial Grade ARM-based Smart Wireless IoT Gateway with ARM Cortex A8, Dual T-Flash (microSD), and Pre-installed Debian



Key Features

- · Industrial grade ARM-based system with pre-installed Debian
- · Microsoft Azure and AWS Greengrass Certified for IoT
- · Field-ready isolated DI/O and serial ports
- · 8 to 25V wide-range DC input
- · -25°C to 70°C wide temperature operation

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Introduction

Neousys IGT-20 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-20 series is shipped as a ready system preinstalled with Debian and is in compliance with common industrial certifications such as CE/FCC, shock and vibration. It has a power input range of 8 to 25 VDC and a wide operating temperature from -25°C to 70°C to ensure IGT-20 series continues to function under harsh industrial conditions. IGT-20 series has I/Os that are applicable to a range of industrial grade sensors. It features one USB 2.0, one 10/100M LAN, COM ports and an optional CAN bus port (IGT-21 only). In addition to the ports mentioned, there are built-in isolated digital input channels that accept discrete signals from various sensors, buttons or switches. There are also built-in isolated digital output channels to control actuators and indicators.

Communication wise, IGT-20 series has a mini PCIe slot and an external 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 series for users to mount the SMA connector of the wireless module. In terms of storage, IGT-20 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. IGT-20 series also provides six LED indicators and two function buttons that can be programmed by users. The function buttons can act as controls for IGT-20 series and exclude the need for external input devices, such as keyboard/ mouse

Specifications

	IGT-20	IGT-21	IGT-22
System Core			
Processor	TI Sitara AM3352 1GHz processor		
Memory	1GB DDR3L SDRAM		
RTC	-	-	Yes
Front-panel I/O I	nterface		
Ethernet	1x 10/100M Ethernet		
SD Card	1x external T-flash socket support SDHC		
SIM Card	1x external SIM socket		
USB 2.0	1x USB 2.0		
Isolated DI/O	4-CH isolated DI and 4-CH isolated DO		8-CH isolated DI and 8-CH isolated DO
Console	1x 3-wire RS-232 as Console Port		
User LEDs	6x user programmable LEDs		
User Buttons	2x user programmable buttons		
CAN	-	1x CAN bus 2.0 A/B	-
Top I/O Interface	•		
DC-in	1x DC-input connector		
Power Button	1x power button		
Reset Button	1x reset button		
Serial Port	2x software configurable RS-232/422/485		1xRS-232 and 1x RS-485
Antenna Opening	1x antenna opening for WiFi and 3G/LTE		

	IGT-20	IGT-21	IGT-22
Internal I/O Inter	rface		
mPCle	1x full size mPCIe with USB 2.0 only		
SD Card	1x internal T-flash socket support SDHC		
Software			
Operating System	Pre-installe	d Debian 8	Pre-installed Debian 9
Mechanical			
Dimension	41mm(W) x 77mm(D) x 104mm(H)		
Weight	0.4 Kg		
Mounting	DIN-rail mount		
Environmental			
Operating Temperature	-25°C ~ 70°C *		
Vibration	5Grms		
Shock	50Grms		
EMC	CE/FCC Class A, according to EN 55032		

 $^{{\}rm *For\ sub\hbox{-}zero\ operating\ temperature,\ a\ wide\ temperature\ microSD\ module\ is\ required}.}$

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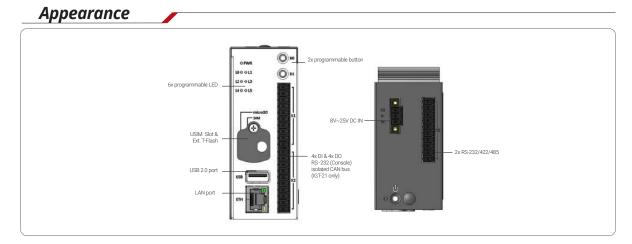
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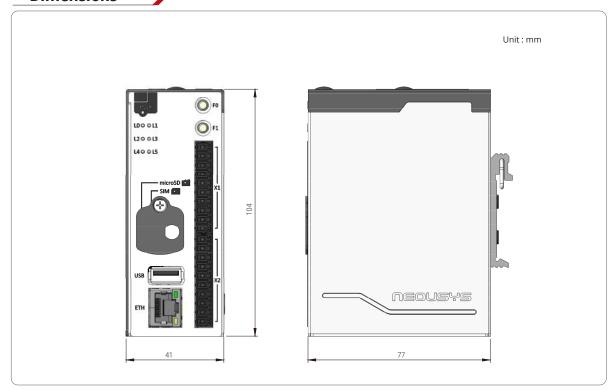


IGT-20/ IGT-21/ IGT-22





Dimensions



Ordering Information

Model No.	Product Description
IGT-20	Industrial grade ARM-based IoT gateway with 4DI and 4DO
IGT-21	Industrial grade ARM-based IoT gateway with 4DI, 4DO and CAN bus
IGT-22	Industrial grade ARM-based IoT gateway with 8DI and 8DO

Optional Cellular Module

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

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All specifications and photos are subject to change without prior notice



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