

IGT-22-DEV

# Industrial-grade IoT gateway Development Kit



- ▶ Industrial-grade IoT gateway
- ▶ 8 isolated digital inputs and 8 digital outputs
- ▶ Pre-loaded and configured IoT platform middleware

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## Introduction

Would you like to improve your daily operations? Did you know big data generated from daily operation offers valuable insights that you may otherwise overlook, and dramatically improve your operations?

If your answer to both questions is yes, then you must already know the importance of implementing the correct method for data acquisition continuity. However, you might not be familiar with or is unsure of the prerequisites or the preparation work that need to be done for data continuity and acquire the valuable big data which may later turn into one of your greatest assets. The Neosys IGT-22-DEV is an industrial-grade gateway development kit that provides the comprehensive resources you need for developing your gateway.

IGT-22-DEV provides a ready-for-use software environment featuring Debian Buster, Docker CE, Node-RED, Python3, GCC and IoT platform agent configured with sensors and cloud connection. With minimum provisioning on the IoT platform, a web-based dashboard becomes available and can be accessed on a desktop computer, tablet or mobile phone, wherever you may be. IGT series supports various programming languages, such as Python and GCC. On top of that, IGT-22-DEV has Node-RED pre-installed for intuitive graphical and local logic control of the built-in DO, allowing prompt responses. Unlike the standard IGT-22, the USB port of IGT-22-DEV is specifically set to OTG mode to provide serial and LAN functions over USB, so you can choose to connect to IGT-22-DEV with a USB cable.

Neosys IGT development kits not only demonstrate the capabilities of the IGT series but their ready-for-deployment and plug-and-play characteristics make them excellent choices for compatibility or performance evaluation without starting from scratch. It's undoubtedly the IIoT kit you want to get your hands on whether it is your first IoT project, bridging between digital and legacy devices, or a system compatibility test before actual implementation. The Neosys IGT development kits make your IIoT journey simple, effective and efficient.

## Specifications

System Core		Software	
Processor	TI Sitara AM3352 1GHz Processor	Container	Docker CE
Memory	1GB DDR3L SDRAMs	System Monitoring	Cockpit
Storage	8GB	IoT Platform Agent	Thingsboard-gateway
Power supply	1x 3-pin pluggable terminal block for 8~25VDC	Supported Protocol	MQTT / Modbus RTU / Modbus TCP / OPC-UA / BLE / CAN / BACnet / ODBC / REST / HTTP / SNMP
I/O Interface		Mechanical	
Ethernet port	1x 10/100M Ethernet	Dimension	41mm (W) x 104 mm (H) x 77 mm (D)
Serial port	1x RS-232, 1x RS-485 with auto flow control	Weight	0.5Kg
USB	1x USB2.0 as a device supporting RNDIS and ACM	Mounting	DIN-rail mounting
Isolated DIO	8-CH isolated DI and 8-CH isolated DO	Environmental	
Console	1x 3-wire RS-232	Operating Temperature	-25°C ~ 70°C, 100% CPU loading
User LEDs	6x user-programmable LEDs	Storage Temperature	-40°C ~85°C
User buttons	2x user-programmable buttons	Humidity	10%~90% , non-condensing
mini-PCIe	1x mini PCI Express slot with external USIM socket for an optional cellular modem or WiFi module	Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
Software		Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
Operating System	Debian 10 pre-installed	EMC	CE/FCC Class A, according to EN 55032 & EN 55024
Development Tool	Node-RED / Python3.7.3 / GCC 8.3.0		

## Ordering Information

Model No.	Product Description
IGT-22-DEV	Industrial-grade IoT gateway development kit
Optional Wireless Accessories	
NSIO-LTE-7455	Cat. 6 LTE embedded socket modem
LTE CAT-4 option	Cat. 4 LTE module with one internal cable to SMA connector
WiFi and BT option	WiFi 802.11ac module with one internal cable to SMA connector
LTE Antenna option	Antenna 698-960/1710-2170/2300 -2700 Mhz, 50-ohm Impedance
WiFi Antenna option	Antenna WiFi 2.4G/5.8G 2dbi RP
Optional Power Supply Unit	
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.

### DISCLAIMER

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