# UNO-1252G

Intel® Quark Micro DIN-rail Gateway w/2 x LAN, 2 x mPCle, 2 x COM, 4 x DI, 4 x DO. 2 x USB. 1 x 1GB microSD card. 1 x SIM



### **Features**

- Intel® Quark X1001 400 MHz processor with 256/512MB Memory
- 2 x LAN, 2 x mPCle, 1 x RS-232, 1 x RS-232/485, 4 x DI, 4 x DO, 2 x USB, 1 x 1GB microSD card, 1 x SIM
- COM ports and digital I/O with isolation protection design for sensing and
- controlling
- Chassis grounding protection
- Compact with fanless design
- DIN-rail mounting design
- Supports GPRS/3G/GPS/Wi-Fi communication by iDoor technology
- Supports Yocto Linux system











## Introduction

The UNO-1252G is an Intel Quark DIN-rail controller for IoT gateway solutions. This controller features dual LAN ports and mPCle card slots for economic gateway applications bridging cloud and brown areas. The general purpose input/output ports directly read the status of sensors and indicate required results. The UNO-1252G is also equipped with Advantech iDoor technology that employs iDoor modules to extend itself to become a wireless gateway. In addition, the UNO-1252G also features eight LED indicators for the status of Power, Battery, SD card, COM ports and three programmable indicators.

# **Specifications**

#### General

 Certification CE, FCC, CCC, BSMI, UL

Dimensions (W x D x H) 63 x 105 x 100 mm (2.48" x 4.13" x 3.94")

 Form Factor Micro Size Enclosure Aluminum Housing Mounting DIN-rail Weight (Net) 0.6 kg (1.33 lbs) Power Requirements 10~36 V<sub>DC</sub>

 Power Consumption 10 W (Typical), 18W (Max)

 OS Support Yocto Linux

#### **System Hardware**

BIOS 8MB SPI Flash

Processor Intel Quark X1001 400 MHz System Chip Integrated Intel SoC Chipset

On-board 256/512 MB DDR3 800 MHz Memory LEDs for Power (PWR), battery (BTR), LED Indicators COM1~2 (Tx/Rx) and microSD (SD), Programmable Indicators (PL1~3)

Storage Built-in 1GB micro SD card, up to 32GB 2 x Full size mPCle slot (1 x USB signal, 1 x PCle Expansion

#### I/O Interfaces

 Isolated Serial Ports 1 x RS-232, DB9, 50~115.2 kbps, supports console

1 x RS-232/485, DB9, 50~115.2 kbps (Isolation Protection 1000 V<sub>DC</sub>)

LAN Ports 2 x RJ45, 10/100 Mbps

USB Ports 1 x USB 2.0 (type-A), 1 x USB Client (micro-B) Isolated DI/O 4-ch digital input, 4-ch digital output (Isolation Protection 1000  $V_{DC}$ , Overvoltage protection 30  $V_{DC}$ ,

default wet contact) 1 x 3 Pin, Terminal Block Grounding Protection Chassis Grounding

## **Environment**

SIM

Power Connector

 Operating Temperature - 20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH Storage Temperature - 40 ~ 85°C ( -40 ~ 185°F)

1 x SIM card slot

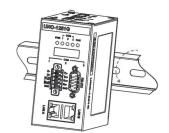
 Relative Humidity 10 ~ 95% RH @ 40°C, non-condensing Shock Protection Operating, IEC 60068-2-27, 50G, half sine,

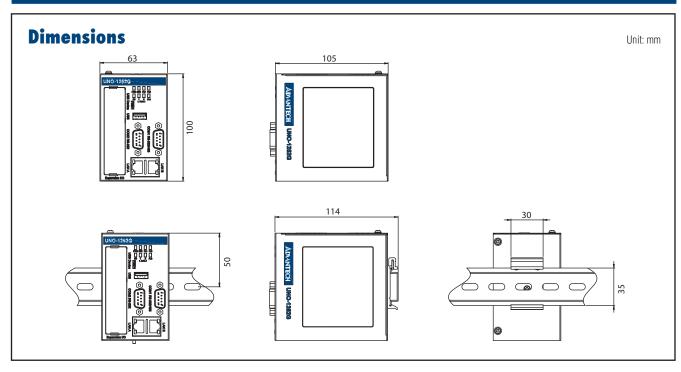
 Vibration Protection Operating, IEC 60068-2-64, 2 Grms, random, 5 ~ 500Hz, 1 hr/axis

## **Installation Scenario**

#### **DIN-rail Mount Illustration**



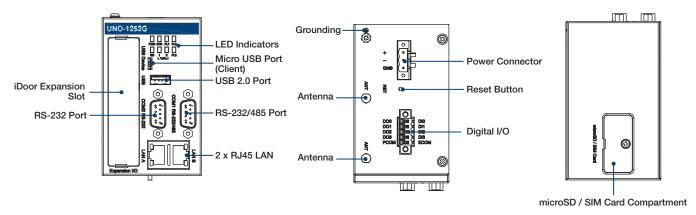




## Front I/O View

# Top I/O View

## **Bottom I/O View**



# **Ordering Information**

UNO-1252G-Q0AE Intel Quark X1001 400MHz, 2 x LAN, 2 x mPCle, 2 x COM, 4 x DI, 4 x DO, 2 x USB, 1GB microSD, 256 MB
UNO-1252G-Q0BE Intel Quark X1001 400MHz, 2 x LAN, 2 x mPCle, 2 x COM, 4 x DI, 4 x DO, 2 x USB, 1GB microSD, 512 MB

## iDoor Modules

• PCM-24S33G-AE Wide-Temp 3.75G HSPA and GPS, 2-in-1, mPCle w/ dual SIM Card holder, Antenna, cable

• PCM-24S2WF-BE WiFi 802.11 ac/a/b/g/n 2T2R w/Bluetooth 4.1, M.2/ Full-size mPCle, Antennas

• PCM-26D2CA-AE 2-Port Isolated CANBus mPCle, CANOpen, DB9

PCM-24D2R2-BE
PCM-24D2R4-BE
PCM-24D4R2-BE
PCM-24D4R2-BE
PCM-24D4R2-BE
4-Ports Non-Isolated RS-232 mPCle, DB37

• PCM-24D4R4-BE 4-Ports Non-Isolated RS-422/485 mPCle, DB37

\*More iDoor modules will be supported by project.

# **Optional Accessories**

UNO-IPS2440-AE
PWR-247-CE
24 V<sub>DC</sub>/ 40 Watts DIN-Rail Power Supply
ADP A/D 100-240V 60W 24V

1702002600 Power Cable US Plug 1.8 M
1702002605 Power Cable EU Plug 1.8 M

• 170203180 Power Cable EU Plug 1.8 M • 170203180 Power Cable UK Plug 1.8 M

■ **1700000596** Power Cable China/Australia Plug 1.8 M