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 D0, 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 solution. This controller features dual LAN ports and mPCle card slots for economic gateway application bridging cloud and brown area. The general purpose input/output ports also success gateway controller directly reading status of sensors and indicating 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_{DC}

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_{DC})

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) Power Connector 1 x 3 Pin, Terminal Block Grounding Protection Chassis Grounding 1 x SIM card slot

Environment

SIM

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

 Storage Temperature - 40 ~ 85°C (-40 ~ 185°F) Relative Humidity

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

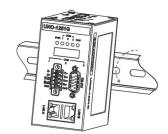
 Vibration Protection Operating, IEC 60068-2-64, 2 Grms, random,

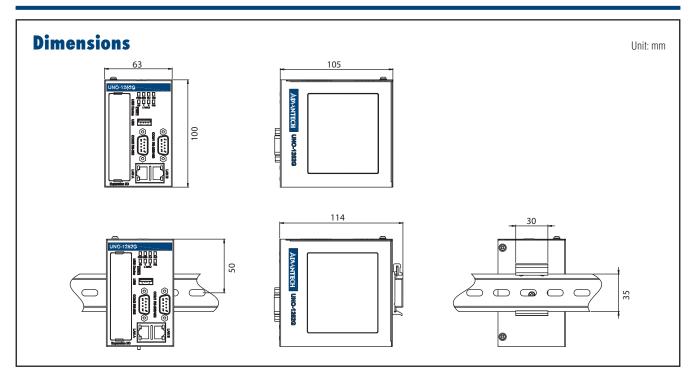
5 ~ 500Hz, 1 hr/axis

Installation Scenario

DIN-rail Mount Illustration



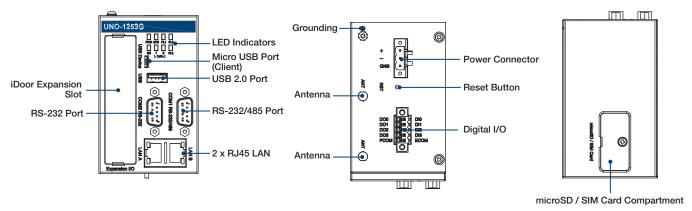




Front I/O View

Top I/O View

Bottom I/O View



Ordering Information

UNO-1252G-QOAE
 Intel Quark X1001 400MHz, 2 x LAN, 2 x mPCle, 2 x COM, 4 x DI, 4 x DO, 2 x USB, 1GB microSD
 UNO-1252G-QOBE
 Intel Quark X1001 400MHz, 2 x LAN, 2 x mPCle, 2 x COM, 4 x DI, 4 x DO, 2 x USB, 1GB microSD

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 2-Ports Isolated RS-232 mPCle, DB9

■ PCM-24D2R4-BE 2-Ports Isolated RS-422/485 mPCle, DB9

PCM-24D4R2-BE
 PCM-24D4R4-BE
 4-Ports Non-Isolated RS-232 mPCle, DB37
 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

17020026001702002605

170203180

• 1700000596

 $24\ V_{\text{DC}}/\ 40$ Watts DIN-Rail Power Supply

ADP A/D 100-240V 60W 24V

Power Cable US Plug 1.8 $\rm M$

Power Cable EU Plug 1.8 M

Power Cable UK Plug 1.8 M

Power Cable China/Australia Plug 1.8 M