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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Intel Galileo Gen 2 Development Board

SKU:DFR0341



INTRODUCTION

What will you make?

The Intel® Galileo Gen 2 board is the first in a family of Arduino*-certified development and prototyping boards based on Intel® architecture and specifically designed for makers, students, educators, and DIY electronics enthusiasts. Providing users with a fully open source hardware and software development environment, the Intel Galileo Gen 2 board complements and extends the Arduino line of products to deliver more advanced compute functionality to those already familiar with Arduino prototyping tools. The Intel Galileo Gen 2 development board is designed to be hardware-, software-, and pin-compatible with a wide range of Arduino Uno* R3 shields and additionally allows users to incorporate Linux* firmware calls in their Arduino sketch programming.

Whats new with the Intel® Galileo Gen 2 board?

- 6-pin 3.3V USB TTL UART header replaces 3.5 mm jack RS-232 console port for Linux debug. New 6-pin connector mates with standard FTDI* USB serial cable (TTL-232R-3V3) and popular USB-to-Serial breakout boards. 12 GPIOs now fully native for greater speed and improved drive strength.
- 12-bit pulse-width modulation (PWM) for more precise control of servos and smoother response.
- Console UART1 can be redirected to Arduino headers in sketches, eliminating the need for soft-serial in many cases.
- 12V power-over-Ethernet (PoE) capable (PoE module installation required).
- Power regulation system changed to accept power supplies from 7V to 15V.

FEATURES

- Intel® Quark™ SoC X1000 application processor, a 32-bit, single-core, single-thread, Intel® Pentium® processor instruction set architecture (ISA)-compatible, operating at speeds up to 400 MHz.
- Support for a wide range of industry standard I/O interfaces, including a full-sized mini-PCI Express* slot, 100 Mb Ethernet port, microSD* slot, USB host port, and USB client port.
- 256 MB DDR3, 512 kb embedded SRAM, 8 MB NOR Flash, and 8 kb EEPROM standard on the board, plus support for microSD card up to 32 GB.
- Hardware and pin compatibility with a wide range of Arduino Uno R3 shields.
- Programmable through the Arduino integrated development environment (IDE) that is supported on Microsoft Windows*, Mac OS*, and Linux host operating systems.
- Support for Yocto 1.4 Poky* Linux release.

SPECIFICATION

- Size: 123.8 mm × 72.0 mm (4.87" x 2.83")
- Weight: 340g

SHIPPING LIST

- Intel Galileo Gen 2 Development Board x1