UNO-2174G/GL

Intel® Celeron® Automation Computers
with 4 x GbE, 2 x Mini PCIe, DVI/DP/HDMI

UNO-2184G

Intel® Core™ i7 Automation Computer
with 4 x GbE, 2 x Mini PCIe, DVI/DP/HDMI

NEW

Features

- Onboard Intel Celeron 847/807UE/Core i7-2655LE, 1.1 GHz/1.0 GHz/2.2 GHz processors
- 2 x RS-232 and 2 x RS-232/422/485 ports with automatic flow control
- 4 x 10/100/1000Base-T Ethernet
- DVI-I, DP, HDMI support 2 x independent displays
- Audio with Mic in, Line in, Line out
- 6 x USB 2.0 ports
- Supports 2 x PCI-104 plug-in card with daughterboard expansion
- Windows® WES 2009, WES 7 ready solution
- External accessible CFast slot
- Onboard system status LED indicators
- Supports wake on LAN and boot from LAN function
- Supports Power eSATA
- Isolation between chassis and power ground
- IP40 ingress protection

Windows Embedded   Compatible with Windows 7   CE   FCC   c(UL)us LISTED E180881 I.T.E.

Introduction

UNO-2184G/2174G/GL are high-performance Intel 2nd generation Core i7-2655LE/847/807UE grade controllers that support PCI-104 with daughterboard expansion, 3 x display, 6 x USB, and 2 x Mini PCIe socket. They also feature WLAN, 3G expansion and compatibility with Windows 7. The 4 x Gigabit LANs on the UNO-2184G support teaming function with fault tolerance, link aggregation, and load balance features. The UNO-2184G/2174G/GL are high end computing platforms designed to support applications with tremendous data volume and 3D content.

Specifications

General

- **Certification**   CE, UL, CCC, FCC, C-Tick
- **Dimension (W x D x H)**   255 x 152 x 69 mm (10" x 6.0" x 2.7")
- **Enclosure**   Aluminum
- **Mounting**   DIN-rail, Wallmount, VESA
- **Power Consumption**   UNO-2174G/GL: 30 W/ 20 W (Typical)
  UNO-2184G: 40 W (Typical)
- **Power Requirements**   9 ~ 36 V_{DC} (e.g +24V @ 3A) (Min. 72W), AT/ATX
- **Weight**   3.0 kg
- **OS Support**   Windows XP/7, WES7, WES-2009, Linux
- **System Design**   Fanless with no internal cabling (except COM3/COM4)
- **Remote Management**   Built-in Advantech DiagAnywhere agent on WES2009 / WES7

System Hardware

- **CPU**   UNO-2174G/GL: Intel Celeron 847/807UE 1.1 GHz/ 1 GHz
  UNO-2184G: Intel Core i7-2655LE 2.2 GHz
- **Memory**   UNO-2174G/GL: 4 GB DDR3 SDRAM built-in
  UNO-2184G: 4 GB/8 GB DDR3 SDRAM built-in
- **Indicators**   LEDs for Power, battery, LAN (Active, Status) and Serial (Tx, Rx)
- **Keyboard/Mouse**   1 x PS/2
- **PC/104 Slot**   PCI-104 slot, supports +5 & 3.3V power
- **Storage**   CF: 1 x CFast slot
  HDD: One built-in 2.5" SATA HDD bracket
  (2 x HDD with RAID by project support)
- **Display**   1 x DVI-I, 1 x HDMI, 1 x DP (2 x independent displays)
- **Audio**   Mic in, Line in, Line out
- **Watchdog Timer**   Programmable 256 levels timer interval, from 1 to 255 sec
- **Mini PCIe Expansion**   2 x Mini PCIe slots with 1 x SIM card

Daughterboard (Additional purchase required)

- **Expansion Slot**   PCI-104 support (+5 & 3.3V power)

I/O Interfaces

- **Serial Ports**   2 x RS-232, 2 x RS-232/422/485 with DB9 connectors; automatic RS-485 data flow control
- **Serial Port Speed**   RS-232: 50 ~ 115.2 kbps
  RS-422/485: 50 ~ 115.2 kbps (Max.)
- **LAN**   4 x 10/100/1000Base-T RJ-45 ports
  Supports AMT (UNO-2184G only), wake on LAN and built-in boot ROM in flash BIOS
- **USB Ports**   6 x USB 2.0

Environment

- **Humidity**   95% @ 40°C (non-condensing)
- **Operating Temperature**   -10 ~ 60°C (14 ~ 140°F) @ 5 ~ 85% RH. (with air flow)
- **Shock Protection**   IEC 60068-2-27
  CompactFlash: 50 G @ wall mount, half sine, 11 ms
  HDD: 20 G @ wall mount, half sine, 11 ms
- **Vibration Protection**   IEC 60068-2-64 (Random 1 Oct./min, 1hr/axis.)
  CompactFlash: 2 Grms @ 5 ~ 500 Hz,
  HDD: 1 Grms @ 5 ~ 500 Hz

Ordering Information

- **UNO-2184G-D44E**   Intel Core i7-2655LE 2.2 GHz, 4 GB RAM Automation Computer
- **UNO-2184G-D45E**   Intel Core i7-2655LE 2.2 GHz, 8 GB RAM Automation Computer
- **UNO-2174G-C54E**   Intel Celeron 847 1.1 GHz, 4 GB RAM Automation Computer
- **UNO-2174GL-C44E**   Intel Celeron 807UE 1.0 GHz, 4 GB RAM Automation Computer

Accessories

- **UNO-FPM21-AE**   UNO-2000 series VESA mount kit
- **EWM-W138H01E**   Mini PCIe card for WLAN
- **1750006043**   Wi-Fi cable 15CM
- **1750002842**   Antenna for Wi-Fi
- **PCLS-DIAGAW10**   Advantech Remote Monitoring & Diagnosis Utility
- **UNO-PCM24-AE**   2 x PCI-104 expansion board
- **9656EWMG00E**   Half size to full size Mini PCIe bracket
- **UNO-2184HD-AE**   RAID accessory kit for UNO-2184G/2174G