

# UNO-2174G/GL UNO-2184G

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

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



## Features

- Onboard Intel Celeron 847E 1.1GHz/807UE 1.0GHz/Core i7-2655LE 2.2GHz/i7-3555LE 2.5GHz 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 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

## Introduction

The UNO-2184G & 2174G/GL are high-performance Intel 3<sup>rd</sup> generation Core i7-3555LE/Intel 2<sup>nd</sup> generation core i7-2655LE/847E/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, BSMI
- Dimensions (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<sub>DC</sub> (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: Intel Celeron 847E 1.1GHz  
UNO-2174GL: Intel Celeron 807UE 1.0GHz  
UNO-2184G: Intel Core i7-3555LE 2.5GHz/i7-2655LE 2.2GHz
- 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 (Optional 2 x HDD Bracket Kit)
- 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 (only UNO-2184G-D64E supports 2 x USB3.0)

### Environment

- Humidity** 95% @ 40°C (non-condensing)
- Operating Temperature** UNO-2174/2184 -10 ~ 60°C (14 ~ 140°F) @ 5 ~ 85% RH. (with air flow)  
UNO-2184GX (TBC) -40 ~ 60°C (-40 ~ 140°F) @ 5 ~ 85% RH. (with air flow)
- Storage Temperature** -40 ~ 60°C (-40~140°F)
- 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-2184G-D64E** Intel Core i7-3555LE 2.5GHz, 4 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-2000G-VMKAE** UNO & FPM integration VESA Mount kit
- 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** 2 x HDD Bracket accessory kit for UNO-2184G/2174G