

# UNO-3083G/3085G UNO-3073G/3075G

Intel® Core i7/Celeron 800 series  
Automation Computers with 3/5 PCI(e)  
expansion slots, 2 mPCIe slots and  
2 CFAST sockets



## Features

- Onboard Intel Core i7-3555LE/Celeron 847E/807UE, 2.5GHz/1.1GHz/1.0GHz
- 2 x RS-232/422/485 ports with automatic flow control and 2 x RS-232 pin head reserved
- 2 x 10/100/1000BASE-T Ethernet
- DVI-I, HDMI support 2 x independent displays
- Audio with Mic in, Line out
- 9 x USB ports (4 x USB 3.0, 1 x internal USB for dongle and flash drive)
- Windows WES 2009, WES 7
- Dual power input for power redundancy
- Onboard system diagnosis LED indicators
- Supports wake on LAN
- Isolation between chassis and power ground
- Front accessible dual HDD/SSD with onboard RAID 0/1 support

## Introduction

The UNO-3083G/3085G/3073G/3075G/3073GL are configured with high-performance Intel® Core i7/Celeron 800 series processors and QM77/ QM67/ HM65 PCH, which supports two displays, eight USB ports, two Mini PCIe sockets, two CFAST Sockets and up to five expansion slots. They also feature two power inputs for redundancy and relay function for alarm handling, furthermore, two friendly front accessible HDD/ SSD bays to support RAID 0/1. Two Gigabit LANs support teaming function with fault tolerance, link aggregation and load balance features. The built-in intelligent BIOS to diagnose system status immediately via relay function or LED indication.

## Specifications

### General

- Certification** CE, UL, CCC, FCC, BSMI
- Dimensions (W x D x H)** UNO-3083G/3073G: 148 x 238 x 177 mm (5.8" x 9.3" x 7.0")  
UNO-3085G/3075G: 193 x 238 x 177 mm (7.6" x 9.3" x 7.0")
- Enclosure** Aluminium
- Mounting** Wallmount, Stand mount, Panel mount
- Power Consumption** UNO-3083G/3085G: 45W (Typical), 130W(Max)  
UNO-3073G/3075G: 35W (Typical), 122W(Max)
- Power Requirements** 12V ±20%/ 24V ±20% (e.g +24 V @ 5 A)
- Weight** UNO-3083G/3073G/3073GL: 4.5kg  
UNO-3085G/3075G: 5.0kg
- OS Support** Windows XP, Windows7/8, WES7, WES-2009
- System Design** Fanless with no internal cabling (except COM1/COM2)

### System Hardware

- CPU** UNO-3083G/3085G: Intel Core i7-3555LE 2.5GHz  
UNO-3073G/3075G: Intel Celeron 847E 1.1GHz
- Memory** Built-in 4GB DDR3 1600 MHz (UNO-3083G/3085G/3073G/3075G can support up to 16GB RAM by project)
- Indicators** LEDs for Power, Battery, LAN (Active, Status), Serial communication (Tx, Rx) and User Defined
- Storage** CF  
HDD 2 x CFAST sockets  
Two built-in 2.5" SATA HDD brackets with RAID 0/1 (except UNO-3073GL)
- Display** 1 x DVI-I, 1 x HDMI (2 x independent displays)
- Ethernet** LAN A: Intel 82579LM  
LAN B: Intel 82574L
- Audio** 1 x Mic in, 1 x Line Out
- Watchdog Timer** Programmable 255 levels timer interval, from 1 to 255 sec
- Mini PCIe Expansion** 2 x Mini PCIe slots with 2 x SIM card slots
- PCI (e) Expansion** UNO-3083G/3073G: 1 x PCIe16 slot and 2 x PCI slots  
UNO-3085G: 2 x PCIe8 slots and 3 x PCI slots  
UNO-3075G: 1 x PCIe16 slot and 4 x PCI slots
- PCI Slot Power** 12 V @ 3 A, -12 V @ 0.8 A, +5 V @ 6 A, +3.3 V @ 6 A (total combined power consumption on the PCI slots should be less than 40W)

### I/O Interface

- Serial Ports** 2 x RS-232/422/485 with DB9 connectors, automatic RS-485 auto flow control, 50-115.2kbps, 2 x RS-232 (optional)
- LAN** 2 x 10/100/1000BASE-T RJ-45 ports, wake on LAN in flash BIOS
- USB Ports** 9 x USB (one internal, and 4 x USB3.0 support on UNO-3083G-D64E/UNO-3085G-D64E)

### Environment

- Humidity** 95% @ 40°C (non-condensing)
- Operating Temperature** - 10 ~ 60°C (14 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow (Industry SSD)
- Shock Protection** IEC 60068-2-27  
CompactFlash: 50 G @ wall mount, half sine, 11 ms  
HDD: 20 G @ wall mount, half sine, 11 ms  
IEC 60068-2-64 (Random 1 Oct./min, 1hr/axis.)  
CompactFlash: 2 Grms @ 5 ~ 500 Hz,  
HDD: 0.5Grms@5-500Hz
- Vibration Protection**

## Ordering Information

- UNO-3083G-D64E** Intel Core i7-3555LE 2.5GHz, 4GB RAM, 1 x PCIe16 + 2 x PCI expansion slots
- UNO-3085G-D64E** Intel Core i7-3555LE 2.5GHz, 4GB RAM, 2 x PCIe8 + 3 x PCI expansion slots
- UNO-3073G-C54E** Intel Celeron 847E 1.1 GHz, 4 GB RAM, 1 x PCIe16 + 2 x PCI expansion slots
- UNO-3075G-C54E** Intel Celeron 847E 1.1GHz, 4GB RAM, 1 x PCIe16 + 4 x PCI expansion slots

## Accessories

- UNO-SM83-AE** Stand mount kit for UNO-3000G series
- UNO-PM83-AE** Panel mount/wall mount kit for UNO-3000G series
- UNO-3000EM-AE** Extra 2x RS-232 modules for UNO-3000G series
- 96PSA-A150W24T2** 150W AC to DC power adapter
- 98R3308301** 2 x RS232+1 x PS/2 PCI kit for UNO-3000G
- 98R3308302E** LPT port for UNO-3000G
- 1702002600** Power Cable US Plug 1.8 M
- 1702002605** Power Cable EU Plug 1.8 M
- 1702031801** Power Cable UK Plug 1.8 M
- 1700000596** Power Cable China/Australia Plug 1.8 M

## Embedded OS

- 2070012746** Image WES2009 MUI. v3.34 B001 for UNO-3073G/75G
- 2070014714** IMG WES2009 MUI v3.34B001 UNO-3083G/3085G-D64E
- 2070012529** Image WSP7 MUI. V4.12 B001 for UNO-3073G/3075G
- 2070012254** Image WSP7 MUI. for UNO-3083G/3085G
- 2070015260** Img WES7P x86 MUI v4.14 B004 UNO-308XG-D64E

### Optional expansion card by Project support

P/N	Expansion type	Support model
9893308500E	5-slot expansion board, 1xPCIe16 and 4xPCI slot	UNO-3085G
9893308510E	5-slot expansion board, 2xPCIe8 and 3xPCI slot	UNO-3075G
9893308360E	3-slot expansion board, 2xPCIe8 and 1xPCI slot	UNO-3083G/ UNO-3073G