

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

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/i7-2655LE/Celeron 847E/807UE, 2.2GHz/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 solution
- Dual power input for power redundancy
- Onboard system diagnosis LED indicators
- Supports wake on LAN and boot from LAN function
- 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/GL: 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)
UNO-3073G/3075G: 35W (Typical)
UNO-3073GL: 25W (Typical)
- Power Requirements** 12V ±20%/24V ±20% (e.g. +24V @ 5A), AT/ATX power Jumper selection and BIOS AT simulation (support system reboot automatically after power recovery)
- Weight** UNO-3083G/3073G/3073GL: 4.5kg
UNO-3085G/3075G: 5.0kg
- OS Support** Windows XP, Windows 7/8, WES7, WES-2009, Linux
- System Design** Fanless with no internal cabling (except COM1/COM2)
- Remote Management** Built-in Advantech DiagAnywhere agent on WES2009/WES7

System Hardware

- CPU** UNO-3083G/3085G: Intel Core i7-3555LE 2.5GHz/i7-2655LE 2.2GHz
UNO-3073G/3075G: Intel Celeron 847E 1.1GHz
UNO-3073GL: Intel Celeron 807UE 1.0GHz
- Memory** 4G DDR3 SDRAM built-in
(UNO-3083G/3085G/3073G/3075G can support up to 16G RAM by project)
- Indicators** LEDs for Power, Battery, LAN (Active, Status), Serial communication (Tx, Rx) and User Defined
- Storage** CF
HDD
2 x CFast slot
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)
- Audio** Mic in, Line Out
- Watchdog Timer** Programmable 6 levels timer interval, from 15 to 255 sec
- Mini PCIe Expansion** 2 x Mini PCIe slots with 2 x SIM cards
- PCI (e) Expansion** UNO-3083G/3073G: 1x PCIe16 slot and 2x PCI slots
UNO-3085G: 2x PCIe8 slots and 3x PCI slots
UNO-3075G: 1x PCIe16 slot and 4x PCI slots
UNO-3073GL: 1x PCIe1 slot and 2x PCI slots
- PCI Slot Power** 12V @ 3A, -12V @ 0.8A, +5V @ 6A, +3.3V @ 6A (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 data flow control, 2 x RS-232 (optional)
- Serial Port Speed** RS-232: 50 ~ 115.2 kbps
RS-422/485: 50 ~ 115.2 kbps (Max.)
- LAN** 2 x 10/100/1000Base-T RJ-45 ports
Supports AMT (UNO-3083G/3085G only), wake on LAN and built-in boot ROM in flash BIOS
- USB Ports** 9 x USB (one internal, and 4x 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.)
- Vibration Protection** CompactFlash: 2 Grms @ 5 ~ 500 Hz,
HDD: 0.5Grms@5-500Hz

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-3083G-D44E** Intel Core i7-2655LE 2.2 GHz, 4 GB RAM, 1 x PCIe16 + 2 x PCI expansion slots
- UNO-3085G-D44E** Intel Core i7-2655LE 2.2 GHz, 4 GB 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
- UNO-3073GL-C44E** Intel Celeron 807UE 1.0 GHz, 4 GB RAM, 1 x PCIe1 + 2 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-A150W19P4-1** 150W AC to DC power adapter (Commercial Grade)
- 1700001524** Power cable 3-pin US type 1.8 M (Commercial Grade)
- 170203183C** Power cable 3-pin EU type 1.8 M (Commercial Grade)
- 170203180A** Power cable 3-pin UK type 1.8 M (Commercial Grade)

Embedded OS

- 2070012746** Image WES2009 MUI. v3.34 B001 for UNO-3073GL/75G
- 2070012529** Image WS7P MUI. V4.12 B001 for UNO-3073G/3075G
- 2070012254** Image WS7P MUI. for UNO-3083G/3085G
- 2070012833** Image WS7P X64 MUI. for UNO-3083G/3085

Optional Expansion Type by Project Support

Model	Optional Expansion Type
UNO-3083G	2x PCIe8 slots and 1x PCI slot
UNO-3085G	1x PCIe16 slot and 4x PCI slots
UNO-3073G	2x PCIe8 slots and 1x PCI slot
UNO-3075G	2x PCIe8 slots and 3x PCI slots
UNO-3073GL	2x PCIe1 slots and 1x PCI slot
UNO-3073GL (same dimensions as UNO-3085G)	2x PCIe1 slots and 3x PCI slots