

# UNO-3062L

# UNO-3062

Celeron® 400 MHz Front Access Fanless PC with 2xPCI Slots

Celeron® 400 MHz Front Access Fanless PC with 2xPCI and 1xPC Card Slot



## Features

- Onboard Celeron® 400 MHz processor
- Supports 256 MB SDRAM
- Provides 512 KB battery-backup SRAM (UNO-3062 only)
- 2 x RS-232 and 2 x RS-232/422/485 ports with RS-485 automatic flow control
- Two 10/100Base-T RJ-45 ports and four USB ports
- Two free PCI-bus slots extension for versatile applications
- Industrial proven design: anti-shock up to 50 G, anti-vibration up to 2 G
- 4-ch isolated DI, 4-ch isolated DO with timer, counter and interrupt handling
- All connectors at front side of housing
- Flexible mounting plates
- Supports dual power inputs
- Windows® 2000/XP driver ready and Linux driver support
- Windows® XP (SP2) Embedded Ready Platforms with write protection (EWF)

## Introduction

Advantech's UNO-3062 and 3062L are industrial fanless PCs based on Celeron processors, and come with two PCI extensions. They feature a rugged and field-proven design offering dual power inputs and battery backup SRAM. Different from general industrial PCs, UNO-3062 and 3062L are more compact and reliable. They are open platforms that can fulfill any demanding requirement from industrial fields, and are ideal for industrial automation and control.

Unlike traditional PC design, all connections of these industrial PCs are located on the front panel. This makes wiring and maintenance significantly simpler. Moreover, the chassis is very compact at only 140W x 177H x 237D mm, which means installation in a control cabinet is easy.

Embedded operating system is provided with a pre-configured image that has optimized on-board device drivers such as Microsoft Windows XP Embedded.

## Specifications

### General

- Certifications** CE, FCC class A
- Dimensions (WxHxD)** 140 x 177 x 237 mm (5.5" x 7.0" x 9.3")
- Enclosure** Aluminum
- Mounting** Wall/Panel
- Power Consumption** 24 W (typical)
- Power Input** Min. 48 W (16 ~ 36 V<sub>DC</sub>) (e.g. +24 V @ 2 A)
- Weight (Net)** UNO-3062L: 4.2 kg  
UNO-3062: 4.4 kg
- OS Support** Windows® XP Embedded, Windows® 2000/XP, Windows® CE .NET 5.0, Linux

### System Hardware

- CPU** Celeron® 400 MHz ultra low-voltage version
- Battery Backup RAM** 512 KB (UNO-3062 only)
- Expansion Slots** 2 x PCI V2.2  
(Note: The heat dissipation in the PCI cards may affect thermal performance)
- Indicators**  
UNO-3062L: LEDs for power, power input 1, power input 2, power fault, IDE, diagnosis and programmable buzzer.  
UNO-3062: LEDs for power, power input 1, power input 2, power fault, IDE, diagnosis, 4 COM ports Tx/Rx, and alarm for battery backup. Programmable buzzer.
- Keyboard/Mouse** 1 x PS/2
- Memory** 256 MB SDRAM
- PC Card (Only for UNO-3062)** 1 x PC card slot, supports CardBus (Card-32), and 16-bit (PCMCIA 2.1/JEIDA4.2) card supports +5 V, +3.3 V and +12 V @ 120 mA working power
- PCI Slot Power** 12 V @ 2.5 A, -12 V @ 0.8 A, +5 V @ 4 A, +3.3 V @ 3 A
- Storage**  
SSD: 1 x internal type I/II CompactFlash® slot  
1 x external type I/II CompactFlash® slot (UNO-3062 only)  
HDD: Built-in HDD bracket for installation of one standard 2.5" HDD

- VGA** DB15 VGA connector

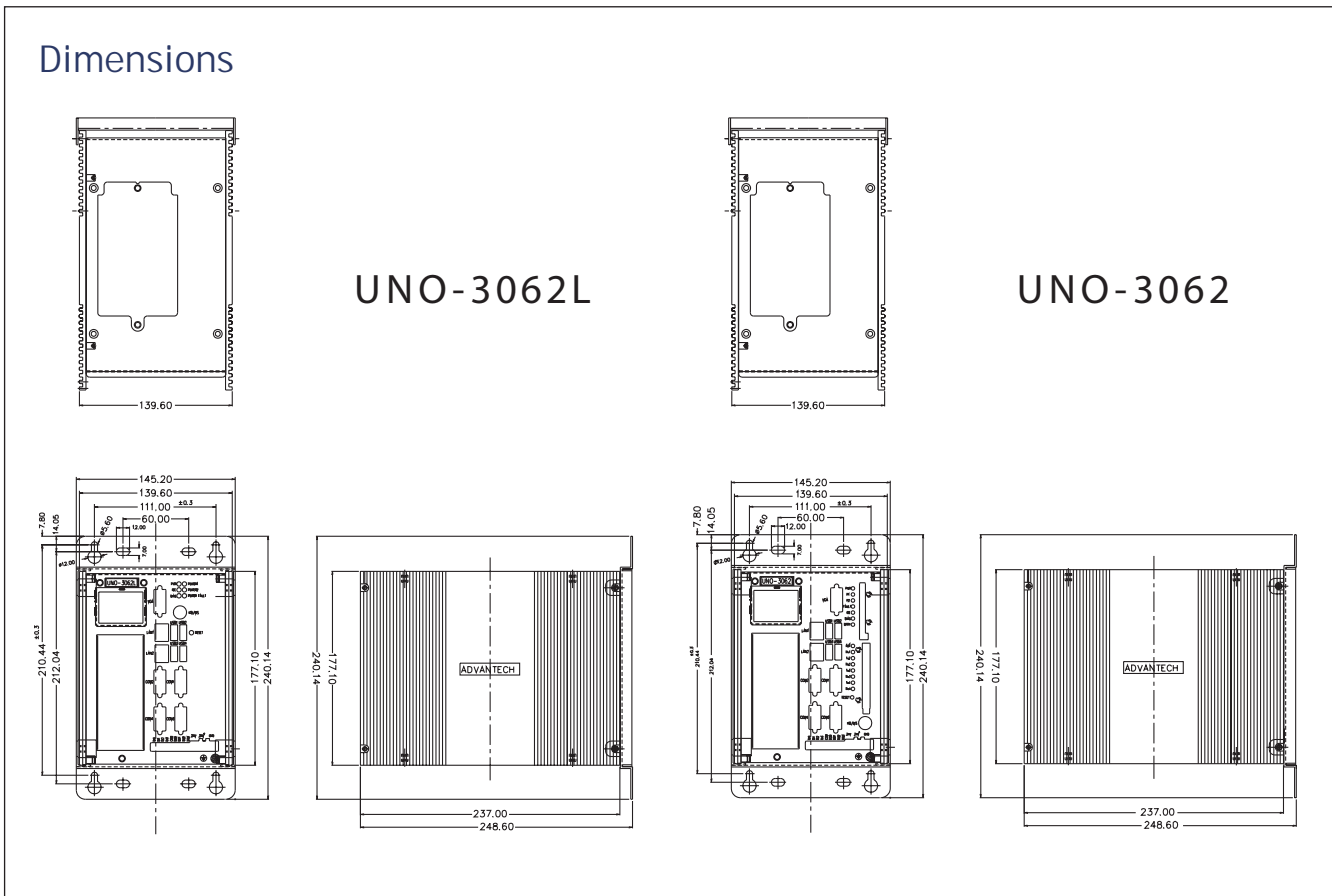
### Communications

- Clock** Battery-backup RTC for time and date
- LAN** 2 x 10/100Base-T RJ-45 ports
- 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 bps ~ 115.2 kbps  
RS-422/485: 50 bps ~ 921.6 kbps (Max.)
- USB Ports** 4 x USB, USB UHCI, Rev. 1.1 compliant
- Digital Inputs (4-ch. wet contact DIO-DI3)**
  - 2,000 V<sub>DC</sub> isolation
  - 2,000 V<sub>DC</sub> ESD protection
  - 70 V<sub>DC</sub> over-voltage protection
  - ±50 V<sub>DC</sub> input range and 10 kHz speed
  - Interrupt handling speed: 10 kHz
- Digital Outputs (4 ch. DDO-DO3)**
  - 2,000 V<sub>DC</sub> isolation and 200 mA max/channel sink current
  - Keep output status after system hot reset
  - 5 ~ 40 V<sub>DC</sub> output range and 10 kHz speed
- Counters/Timers (2 x 16-bit)**
  - Counter source: DI1 & DI3, Pulse output: DO2 & DO3
  - Can be cascaded as one 32-bit counter/timer
  - Down counting, preset counting value
  - Timer time base: 100 kHz, 10 kHz, 1 kHz, 100 Hz

### Environment

- Humidity** 95% @ 40° C (non-condensing)
- Operating Temperature** -10~50° C (14 ~ 122° F)
- Shock Protection** IEC 68 2-27  
CompactFlash®: 50 G @ wall mount, half sine, 11 ms  
HDD: 20 G @ wall mount, half sine, 11 ms  
IEC 68 2-64 (Random 1 Oct./min, 1hr/axis.)  
CompactFlash®: 2 Grms @ 5 ~ 500 Hz  
HDD: 0.5 Grms @ 5 ~ 500 Hz
- Vibration Protection**

## Dimensions



1	Software
2	IPPC
3	TPC
4	FPM
5	ATM & AWS
6	DA&C
7	cPCI
8	ADAM-3000
9	Motion Control
10	ICOM
11	eConnectivity
12	UNO
13	ADAM-4000
14	ADAM-5000
15	ADAM-6000
16	ADAM-8000
17	BAS

## Ordering Information

### Hardware

- **UNO-3062L-JEA0** Celeron 400 MHz, 256 MB SDRAM, 2xPCI
- **UNO-3062-JEA0** Celeron 400 MHz, 256 MB SDRAM, 2xPCI, PC Card

### Hardware with OS

- **UNO-3062LXP-JIA0** UNO-3062L-JEA0 with 1 GB CF and XPE (SP2)
- **UNO-3062XP-JIA1** UNO-3062-JEA0 with 1 GB CF and XPE (SP2)



## Front Access Connections from Control Cabinet

Unlike traditional PC design, all connections of the UNO-3062/3062L are located on the front panel. This makes wiring and maintenance significantly simpler. Moreover, the UNO-3062/3062L is also very compact at only 140 x 177 x 237 mm (W x H x D), which means installation in a control cabinet is easy.