

# UNO-3072

Intel® Pentium® M UNO with 2 x PCI,  
1 x PC Card



## Features

- Onboard Pentium® M processor
- Onboard 512 KB battery-backup SRAM
- Two RS-232 & two RS-232/422/485 ports with RS-485 automatic flow control
- Two 10/100Base-T RJ-45 ports and Four USB 2.0 ports
- Two PCI-bus expansion slots 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
- Supports dual power inputs
- Windows® 2000/XP and Embedded Linux support
- Windows XP (SP2) Embedded Ready Platforms with write protection (EWF)
- Onboard system & I/O LED indicators
- Support Boot From LAN function
- Fanless and no internal cabling design

## Specifications

### General

- **Certifications** CE, FCC class A, UL, CCC
- **Dimensions (W x D x H)** 140 x 237 x 179 mm (5.5" x 9.3" x 7.0")
- **Enclosure** Aluminum
- **Mounting (Option)** Wall/Panel/Stand
- **Power Consumption** 24 W (typical, no PCI cards)
- **Power Input** 9 ~ 36 V<sub>DC</sub> (e.g. +24 V @ 2 A) (Max. 5A), AT. (16 ~ 36 V<sub>DC</sub> for 12 V PCI boards)
- **Weight (Net)** 4.4 kg
- **OS Support** Windows XP embedded, Windows 2000/XP, WinCE 5.0, Linux

### System Hardware

- **CPU** Pentium M 1.4 GHz
- **Memory** 512 MB DDR SDRAM
- **Battery Backup SRAM** 512 KB
- **Expansion Slots** 2 x PCI V 2.2  
(Note: The heat dissipation in the PCI cards may affect thermal performance)
- **Indicators** 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
- **PC Card** 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
  - HDD Built-in HDD bracket for installation of one standard 2.5" HDD
- **VGA** DB15 VGA connector, support to CRT mode: 1600 x 1200 @ 85 Hz
- **Watchdog Timer** Programmable

### Communications

- **Clock** Battery-backup RTC for time and date
- **LAN** 2 x 10/100Base-T RJ-45 ports (Built-in boot ROM in flash BIOS)
- **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 EHCI, Rev. 2.0 compliant
- **Digital Inputs (4-ch. wet contact DIO ~ DI3)**
  - 2,000 V<sub>DC</sub> isolation
  - 50 ~ 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. DO0 ~ DO3)**
  - 2,000 V<sub>DC</sub> isolation and 200 mA max/channel sink current
  - Keep output status after system hot reset
  - 0 ~ 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 (with CF card)** -20 ~ 55° C (-4 ~ 131° F) @ 5 ~ 85% RH
- **Shock Protection** IEC 68 2-27  
CompactFlash: 50 G @ wall mount, half sine, 11 ms  
HDD: 20 G @ wall mount, half sine, 11ms
- **Vibration Protection** IEC 68 2-64 (Random 1 Oct./min, 1hr/axis.)  
CompactFlash: 2 Grms @ 5 ~ 500 Hz  
HDD: 1 Grms @ 5 ~ 500 Hz

## Ordering Information

- **UNO-3072-P11E** P-M 1.4 G, 512 MB RAM UNO-3072

# UNO-3072L

Intel® Celeron® M UNO with 2 x PCI Slots



UNO-3072L-C22E

UNO-3072L-C11E



## Specifications

### General

- **Certifications** CE, FCC class A, UL, CCC
- **Dimensions (W x D x H)** 140 x 237 x 179 mm  
(5.5" x 9.3" x 7.0", for UNO-3072L-C11E)  
153 x 237 x 179 mm  
(6" x 9.3" x 7.0", for UNO-3072L-C22E)
- **Enclosure** Aluminum
- **Mounting (Option)** Wall/Panel/Stand
- **Power Consumption** 24 W (typical, no PCI cards)
- **Power Input** 9 ~ 36 V<sub>DC</sub> (e.g. +24 V @ 2 A) (Max. 5A),  
AT. (16 ~ 36 V<sub>DC</sub> for 12 V PCI boards)
- **Weight (Net)** 4.2 kg/6 kg (UNO-3072L-C11E/UNO-3072L-C22E)
- **OS Support** Windows XP embedded, Windows 2000/XP, WinCE 5.0, Linux

### System Hardware

- **CPU** Celeron M 1.0/1.5 GHz
- **Memory** 512 MB/1 GB DDR SDRAM
- **Expansion Slots** 2 x PCI V.2.2  
(Note: The heat dissipation in the PCI cards may affect thermal performance)
- **Indicators** LEDs for power, power input 1, power input 2, power fault, IDE, diagnosis, Programmable buzzer
- **Keyboard/Mouse** 1 x PS/2
- **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  
HDD Built-in HDD bracket for installation of one standard 2.5" HDD
- **VGA** DB15 VGA connector, support to CRT mode:  
1600 x 1200 @ 85 Hz
- **Watchdog Timer** Programmable

## Features

- Onboard Celeron® M processor
- Two RS-232 & two RS-232/422/485 ports with RS-485 automatic flow control
- Two 10/100Base-T RJ-45 ports and Four USB 2.0 ports
- Two PCI-bus expansion slots 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
- Supports dual power inputs
- Windows® 2000/XP and Embedded Linux support
- Windows XP (SP2) Embedded Ready Platforms with write protection (EWF)
- Onboard system & I/O LED indicators
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### Communications

- **Clock** Battery-backup RTC for time and date
- **LAN** 2 x 10/100Base-T RJ-45 ports (Built-in boot ROM in flash BIOS)
- **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 EHCI, Rev. 2.0 compliant
- **Digital Inputs (4-ch. wet contact DI0 ~ DI3)**
  - 2,000 V<sub>DC</sub> isolation
  - 50 ~ 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. DO0 ~ DO3)**
  - 2,000 V<sub>DC</sub> isolation and 200 mA max/channel sink current
  - Keep output status after system hot reset
  - 0 ~ 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 (with CF card)** -20 ~ 55° C (UNO-3072L-C22E)  
-20 ~ 60° C (UNO-3072L-C11E)
- **Shock Protection** IEC 68 2-27  
CompactFlash: 50 G @ wall mount, half sine, 11 ms  
HDD: 20 G @ wall mount, half sine, 11ms
- **Vibration Protection** IEC 68 2-64 (Random 1 Oct./min, 1hr/axis.)  
CompactFlash: 2 Grms @ 5 ~ 500 Hz  
HDD: 1 Grms @ 5 ~ 500 Hz

## Ordering Information

- **UNO-3072L-C11E** C-M 1.0 G, 512 MB RAM UNO-3072L
- **UNO-3072L-C22E** C-M 1.5 G, 1 GB RAM UNO-3072L