

## PCE-3026 LGA1155 Intel® Core™ i7/i5/i3/ Pentium®/ Celeron® PICMG 1.3 Half Sized System Host Board with DDR3 / Dual GbE LAN Startup Manual

### Packing List

Before you begin installing your card, please make sure that the following items have been shipped:

- 1 PCE-3026 PICMG 1.3 System Host Board
- 1 PCE-3026 startup manual P/N: 2006302600
- 1 CD with utility P/N: 2066302600
- 1 Serial ATA HDD data cables P/N: 1700003194
- 1 Serial ATA HDD power cables P/N: 1703150102
- LPT cable P/N: 1700002223
- COM cable P/N: 1700008762
- USB cable P/N: 1700014398
- Power converter (Connecting from peripheral power connector on power supply to PWR1 on board) P/N: 1703040100
- 1 warranty card P/N: 2190000902

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

**Note 1:** For detailed contents of PCE-3026, please refer to information on the enclosed CD-ROM (in PDF format).

**Note 2:** Acrobat Reader is required to view any PDF file. Acrobat Reader can be downloaded at: [get.adobe.com/reader](http://get.adobe.com/reader) (Acrobat is a trademark of Adobe)

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com>

<http://www.advantech.com/eplatform>

For technical support and service, please visit our support website at:

<http://support.advantech.com.tw/support/default.aspx>

This manual is for the PCE-3026 Series Rev. A1.

Part No. 2006302600

1st Edition,  
October 2012

Printed in China

### Specifications

#### General

- LGA1155 Intel® Core™ i7/i5/i3/Pentium®/Celeron®

CPU	Core i7-3770	Core i7-2600	Core i5-3550S	Core i5-2400	Core i3-3220	Core i3-2120	Pentium G2120	Pentium G850	Pentium G540
Base Frequency	3.4 GHz	3.4 GHz	3 GHz	3.1 GHz	3.3 GHz	3.3 GHz	3.1 GHz	2.9 GHz	2.5 GHz
L3 Cache (MB)	8	8	6	6	3	3	3	3	2

- BIOS:** AMI 64 Mb SPI flash
- Chipset:** Intel® H61
- System memory:** Support dual channel DDR3 1066/1333 4 GB per DIMM without ECC function; Max. capacity is up to 8 GB
- SATA interface:** Supports 3 SATA2.0 without Raid function.
- Serial ports:** 2 RS-232, support 4 RS-422/485 with optional COM module: PCA-COM485-00A1E
- Parallel port:** 1, supports SPP/EPP/ECP mode
- Keyboard/mouse connector:** Supports 1 external 6-pin header
- Watchdog timer:** Programmable 1~255 sec/min
- USB (2.0):** 8 USB2.0
- GPIO:** 1 programmable 8-bit GPIO pin-header
- Operating system:** Win 7 (32/64 bit), Win XP SP3 (32/64 bit), Linux (Fedora Core 16, 32/64 bit), QNX 6.5 (32 bit)

#### VGA/DVI Interface

- Chipset:** Intel® HD Graphics

#### Ethernet Interface

- Chipset supports:**
  - LAN 1: Intel® 82579V
  - LAN 2: Intel® 82583V
- Connection:** 2 on-board RJ-45 connector with LED indicators

#### Mechanical and Environmental

- Dimensions:** (L x W): 167.64 x 126.39 mm
  - Power supply voltage:** +3.3 V, +5 V, +12 V, 5VSB
  - Power requirements:**
    - CPU: Processor: Intel® Core™ i5-2400 (3.1 GHz); Memory: 2 x DDR3 1333 MHz 4 GB DIMMs
- |                       |       |       |        |       |
|-----------------------|-------|-------|--------|-------|
| Voltage (V)           | 3.3   | 5     | 12     | 5VSB  |
| Current (A)           | 1.54  | 1.05  | 3.8    | 0.24  |
| Power consumption (W) | 5.173 | 5.304 | 45.866 | 1.203 |
- Operating temperature:** 0 ~ 60° C (depending on CPU)
  - Weight:** 0.33 kg (weight of board)

#### Thermal

- CPU Cooler:** Suggested order no: 1960047831N001, 1960053207N001

## Specifications Cont.

### Suggested backplane:

P/N	PCIex16	PCIex4	PCIex1	PCI	AT	ATX
PCE-3B06-00A1E	1		4		√	√
PCE-3B03-00A1E	1	1			√	√
PCE-3B06-03A1E	1			3	√	√

## Jumpers and Connectors

The board has a number of jumpers that allow you to configure your system to suit your application. The table below lists the function of each of the jumpers and connectors.

### Connectors

Label	Function
LPT1	Parallel port, supports SPP/EPP/ECP mode
LAN1	Intel® 82579V
LAN2	Intel® 82583V
VGA1	VGA connector
KBMS1	External keyboard/mouse connector
COM12	Box header for RS-232*2
JIR1	Infrared connector
JFP1	Power Switch / Reset connector
JCASE1	Case open
CPUFAN1	CPU FAN connector (4-pin)
LANLED1	LAN1/2 LED connector
HDAUD1	HD audio extension module connector
USB12	USB port 1, 2
USB34	USB port 3, 4
USB56	USB port 5, 6
USB7	USB port 7
USB 8	USB on rear I/O
SATA1	Serial ATA1
SATA2	Serial ATA2
SATA3	Serial ATA3
CPU1	CPU Socket
DIMMA1	Memory connector channel A
DIMMB1	Memory connector channel B
GPIO1	GPIO pin header
LPC1	Low pin count module expansion pin-header
PWR1	12 V, 5 V power connector
DVI1	DVI connector

## Jumpers and Connectors

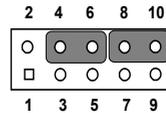
### Jumpers

Label	Function
JCMOS1	CMOS clear
JOBS1+JWDT1	Hardware monitor alarm+watchdog timer output selection
BZ1	Buzzer setting
KL1	Keyboard lock



### JCMOS1: Clear CMOS

Closed Pins	Result
1-2	Keep CMOS (Default)
2-3	Clear CMOS



### JOBS1+JWDT1: Hardware monitor alarm+watchdog timer output selection

Function	Jumper Setting
4-6	Enable watchdog timer (Default)
8-10	Enable Hardware monitor alarm (Default)



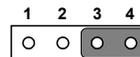
Closed



Open

### KL1: Keyboard lock

Closed Pins	Result
Open	Disable keyboard lock (Default)
Close	Enable keyboard lock



### BZ1: Buzzer setting

Closed Pins	Result
3-4	Enable buzzer (Default)
Connect 1 & 4	Connecting to external speaker

## Software Installation

The drivers for the PCE-3026 are located on the software installation CD. Please click through the folder and follow the on screen instructions to install them.

**Caution!** The computer is supplied with a battery-powered realtime clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to manufacturer's instructions.

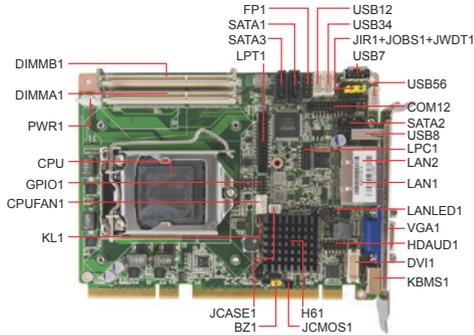


## Declaration of Conformity

This device complies with the requirements in Part 15 of the FCC rules. Operation is subject to the following two conditions:

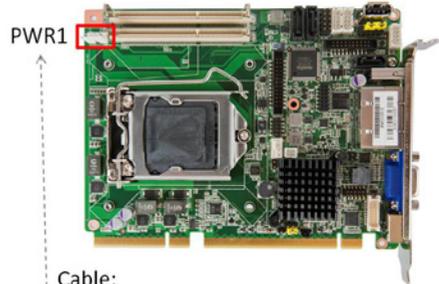
1. This device may not cause harmful interference;
2. This device must accept any interference received, including interference that may cause undesired operation.

## Board Layout

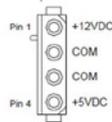


## How to Power on PCE-3026

To power on PCE-3026 with PCE-3BXX backplane, please ensure that the below connectors and jumper are correctly connected and chosen.

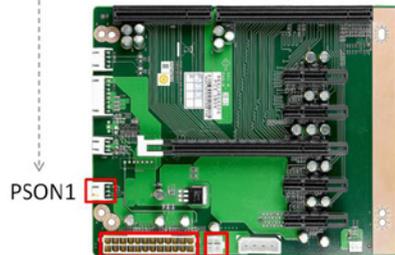
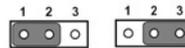


Cable:  
1703040100



PSON1: ATX/AT Mode Selection	
Jumper Setting	Function
1-2	AT mode
2-3*	ATX mode

\*: Default



EXATXPWR1 ATX12V1

