



5-inch Single Board Computer with ULV Celeron M

**GLC-8521-LA [SLC-8521-LA]**



- Equipped with 800MHz Ultra Low Voltage Intel Celeron M processor (FSB400MHz)
- Features Intel® 852 GM-ICH4 chipset
- Supports up to 1GB PC2700 DDR SDRAM
- Includes analog RGB, LVDS, EIDE, 6 x serial (RS-232C) ports, 6 x USB2.0, ports, PS/2
- Analog RGB and LVDS interfaces support Dual View
- LVDS interconnects directly with panel-link LCD
- Type I CF card slot - bootable



| Model                              | GLC-8521-LA   |
|------------------------------------|---|
| CPU                                | Ultra Low Voltage Intel® Celeron® M Processor 800MHz (FSB400MHz) On board, Fan less   |
| Cache                              | -   |
| Processor socket                   | -   |
| Memory (Option)                    | 1x 184-pin DIMM socket, PC2700 DDR SDRAM, up to 1GB,  |
| Chipset                            | Intel® 852GM + ICH4   |
| BIOS                               | AWARD BIOS, PnP support   |
| VGA                                | Built in Intel® 852GM,<br>1 x Analog RGB interface (15-pin HD-SUB connector),<br>1 x LVDS (18bit) interface (1x 20pin and 1x 30pin box-header)  |
| Keyboard / Mouse                   | 1 x PS/2 keyboard / Mouse connector (Y cable included)<br>External key board, mouse signal built-in [CN11]  |
| Serial I/F                         | 4x front 9pin D-SUB connectors (RS-232C)<br>1x 20pin box-header / 2ch RS-232C   |
| Parallel I/F                       | -   |
| On board expansion bus             | PCI slot *1   |
| LAN Port                           | 100BASE-TX/10BASE-T, Intel® ICH4,<br>One RJ-45 connector, Wake On LAN support   |
| IDE I/F                            | 1 x EIDE connectors, Ultra DMA 33/66/100**3   |
| SATA I/F                           | -   |
| FDD I/F                            | -   |
| Compact Flash Slot **4             | 1x bootable CF card (Type I) slot   |
| SSD Socket                         | -   |
| USB Port                           | 6ch USB2.0 compliant ports, 6 x USB Type A connectors   |
| RAID                               | -   |
| Audio                              | AC97 CODEC, 1x 10-pin header connector (line-out, line-in, microphone-in)   |
| Watchdog Timer                     | 255 levels (1 - 255Sec.) Reset when time up   |
| Hardware Monitor                   | Monitors CPU and board temperature, power supply voltage  |
| RTC/CMOS                           | >10 years with no power at 25°C   |
| Power Management                   | Power management setup via BIOS/Modem Ring On/Wake On LAN, Supports PC98/PC99 ACPI Power management   |
| Form factor / Dimensions           | 5.25 inch Little board / 203mm(L) x 145mm(H) [7.99 inch x 5.92 inch]  |
| Power Supply                       | +5VDC±5%~+12VDC±5% (For fan, PCI Slot) +5VSB(Stand by)±5%   |
| Power supply specifications (Max.) | +5VDC: 5.0A<br>+5VSB(Stand by): 1.0A  |
| Operating temperature/Humidity     | 0-50°C / 10-90%RH (No condensation)   |
| Weight                             | 880g  |
| Notes                              | *1: The PCI slot signal pins differ from standard PCI slots.<br>Installed boards CAN NOT use the following signals - A side: A1, A3, A4, A9, A11, A14, A40, A41 / B side: B2, B4, B9, B10, B11, B14, B16, B18<br>**2: Secondary IDE port cannot be set to UltraDMA/66/100 when CF card is used.<br>**3: Secondary IDE port can only support one drive when CF card is in use.<br>**4: CF card slot does not support hot swap. |

#### ■ Packing List

| GLC-8521-LA                    |    |
|--------------------------------|----|
| Board                          | 1  |
| Product Guide                  | 1  |
| IPC Precaution List            | 1  |
| Drivers & Utilities (CD-ROM) * | 1  |
| IDE 80pin Ribbon Cable         | 1  |
| IDE 40pin Ribbon Cable         | 1  |
| Screws for D-SUB connector     | 10 |
| 6 pin mini-DIN cable (Y Cable) | 1  |
| Jumper cap (2mm)               | 1  |

\*User's Manual included on CD-ROM.

#### ■ Optional Accessories

| GLC-8521-LA    |                             |
|----------------|-----------------------------|
| Memory         |                             |
| PC-MDD256-184A | DDR SDRAM DIMM(PC2700 256M) |
| PC-MDD512-184A | DDR SDRAM DIMM(PC2700 512M) |
| PC-MDD1G-184A  | DDR SDRAM DIMM(PC2700 1GB)  |

As shown on the side of product's images, RoHS compliant is a CONTEC original marking for RoHS-compliant products.



Half-size Single Board Computer for PICMG 1.3

**GEH-9450-LAS** **NEW**



- A system with both PCI Express and PCI slots can be built when used with a PICMG1.3-compliant backplane
- Features Intel® 945GME chipset, using an Intel® Core Duo / Core 2 Duo processor
- Supports up to 4GB DDR2 SDRAM (400/533/667MHz), Memory capacity: 3.1GB
- Interfaces include Analog RGB, LVDS, SDVO, USB2.0x4, SATAx2, 1000BASE-T/100BASE-TX, PS/2 and Audio
- CF card slot (Type I/II) - bootable



| Model                            | GEH-9450-LAS  |
|----------------------------------|---|
| CPU                              | Intel® Core Duo / Core 2 Duo (FSB 533/667MHz)   |
| Cache                            | Built in CPU  |
| Processor socket                 | Socket M  |
| Memory (Option)                  | 2x 200-pin SO-DIMM socket, DDR2 400/533/667 for up to 4GB **  |
| Chipset                          | Intel® 945GME + ICH7M-DH  |
| BIOS                             | Award BIOS, PnP support   |
| VGA                              | Built in Intel® 945GME,<br>1x Analog RGB D-SUB 15pin connector,<br>1x LVDS(18bit) I/F: 30pin box header, 20pin box header,<br>1x SDVO I/F (30pin box header) **   |
| Keyboard / Mouse                 | 1 x PS/2 keyboard / Mouse connector (Y cable included)  |
| Serial I/F                       | 1 x 10pin box-header - COM1: RS-232C,<br>1 x 10pin box-header - COM2: RS-232C / 422A / 485<br>Baud rate: 50-115,200bps (programmable)   |
| Parallel I/F                     | -   |
| On-board expansion bus           | Mini PCI  |
| LAN Port                         | 1000BASE-T/100BASE-TX, Intel 82573E controller, One RJ-45 connector <sup>1)</sup> , Wake On LAN support   |
| IDE I/F                          | 1x EIDE port, 2 IDE devices (max.) <sup>4)</sup>  |
| SATA I/F                         | 2x Serial ATA 1.0 compliant board   |
| FDD I/F                          | -   |
| Compact Flash Slot <sup>5)</sup> | 1x CF card (Type I/II) slot, supports IDE slave/master connection, bootable <sup>6)</sup>   |
| SSD Socket                       | -   |
| USB Port                         | 3ch USB2.0-compliant ports, 1 x box-header 10-pin connectors (2ch),<br>1 x USB type A connectors (1ch)  |
| RAID                             | RAID 0, RAID 1  |
| Audio                            | AC97 compliant, 1x 10-pin header connector (line-out, line-in, microphone-in)   |
| Watchdog Timer                   | 255 levels (1 - 255Sec.) Reset when time up   |
| Hardware Monitor                 | Monitors CPU and board temperature,<br>power supply voltage and fan speed   |
| RTC / CMOS                       | Expected backup time with no power @ 25°C is > 7 yrs  |
| Power Management                 | Power management setup via BIOS,<br>Supports Modem Ring On/Wake On LAN and PC98/PC99 ACPI Power management  |
| Bus specification / Size         | SHB Express TM (PICMG 1.3) / 167.64mm(L) x 126.5mm(H)   |
| Power consumption (Max.)         | [Intel® Core TM2 Duo T7200 2.06GHz/667MHz]<br>+12VDC ±5%: 3.0A / +5VSB ±5%: 0.5A  |
| Operating temperature            | 0-60°C <sup>7)</sup>  |
| Humidity                         | 10-90%RH (No condensation)  |
| Weight                           | 480g  |
| Notes                            | *1: Available memory - 3.1GB (max), ECC not supported.<br>*2: Cannot be used simultaneously with PCI-E X16 SDVO board.<br>*3: 1000BASE-T supported by Windows 2000, XP.<br>*4: IDE connection does not support Ultra DMA 66/100 mode when using CF card.<br>*5: CF card does not support Hot Swap function. Do not install or remove card when power is on. Doing so can damage or destroy the CF.<br>*6: IDE connection will only support one drive when using CF.<br>*7: Dependent upon CPU specifications. |

#### ■ Optional Accessories

| GEH-9450-LAS |   |
|--------------|---|
| Backplane    | For use with PICMG1.3-compliant Half-size SBC Slots: PICMG 1.3 x1, PCIx2, PCI Express X16 x1, PCI Express X1 x1 |
| BEH-0611     |   |

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