

# 4GB Computer memory DDR3 for Gigabyte GA-780T-D3L (rev. 3.1) UDIMM





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#### PHS-memory® - computer memory with 100% quality

- many years of IT competence
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- Products with unique serial number for service and warranty
- Pre-sales and after-sales support by technically trained personnel



# Memory Specification



| Memory size               | 4GB                        |  |  |
|---------------------------|----------------------------|--|--|
| Memory technology         | DDR3                       |  |  |
| ECC support               | no                         |  |  |
| JEDEC Norm                | PC3-10600U                 |  |  |
| Туре                      | UDIMM (Non-ECC unbuffered) |  |  |
| Number of pins            | 240 Pin DIMM               |  |  |
| Memory data transfer rate | 1333MHz @ CL9              |  |  |
| Speciality                | -                          |  |  |
| Board dimensions          | 133,35 x 30 (LxB mm)       |  |  |
| Operating temperature     | 0° C - 85° C               |  |  |
| Storage temperature       | -40° C - +95° C            |  |  |
| RoHS compliant            | Yes                        |  |  |
| SKU                       | SP220989                   |  |  |
| EAN                       | 4055069889512              |  |  |
|                           |                            |  |  |

Note: The module specified in this datasheet is one of several possible configurations available under this part number.

Some details may differ from the specifications described here and the illustration, but have no negative influence on the functionality.



#### System Specifications

The memory is 100% compatible with this sytem:

| System manufacturer      | Gigabyte               |  |  |
|--------------------------|------------------------|--|--|
| Device type              | Motherboard-memory     |  |  |
| Device family            | Mainboard GA-7         |  |  |
| Device series            | GA-780 Serie           |  |  |
| Device name              | GA-780T-D3L (rev. 3.1) |  |  |
| Maximum memory*          | 16GB                   |  |  |
| Number of memory sockets | 2                      |  |  |

<sup>\*</sup> The specifications for the maximum memory upgrade may differ from those of the manufacturer Gigabyte. Often the information given in the manual for the maximum memory upgrade is not up to date. New memory technologies, bios updates or newer software versions often allow the use of memory modules with a higher capacity than specified by the manufacturer with the same performance and stability.

# Information on memory allocation

#### Bestückung der Computer memory

Der Einsatz verschiedener Ram Größen in den Steckplätzen ist möglich.

### Information on memory installation

- Turn off the system
- Remove the plug of the power supply unit (if connected)
- Remove the battery, according to the user manual of the system
- Always ground yourself before touching electronic components
- Protect the memory module from static voltages:
  - Do not touch the gold pins of the memory module
  - Only touch the sides of the memory module
  - Use a grounding strap and/or ESD glove if possible

General installation instructions are supplied by E-Mail.



#### Further memory options for Gigabyte GA-780T-D3L (rev. 3.1)

| Size | SKU      | Technology | Туре                              | Number of pins | Brand       | Reference no. |
|------|----------|------------|-----------------------------------|----------------|-------------|---------------|
| 2GB  | SP220988 | DDR3       | UDIMM (Non-<br>ECC<br>unbuffered) | 240 Pin DIMM   | PHS-memory® |               |
| 4GB  | SP220989 | DDR3       | UDIMM (Non-<br>ECC<br>unbuffered) | 240 Pin DIMM   | PHS-memory® |               |
| 4GB  | SP220986 | DDR3       | UDIMM ECC<br>(ECC<br>unbuffered)  | 240 Pin DIMM   | PHS-memory® |               |
| 8GB  | SP220990 | DDR3       | UDIMM (Non-<br>ECC<br>unbuffered) | 240 Pin DIMM   | PHS-memory® |               |
| 8GB  | SP220987 | DDR3       | UDIMM ECC<br>(ECC<br>unbuffered)  | 240 Pin DIMM   | PHS-memory® |               |

## PHS-memory® warranty

Every PHS-memory® is equipped with a 5-years-warranty of perfect operation. If the RAM module is defective or fails within 5 years of purchase when used properly, you will receive an appropriate RAM module free of charge. If a suitable memory module is no longer available, we will refund the purchase price.

For more information on warranty and service please visit <a href="https://www.phs-memory.fr/-W5Y">https://www.phs-memory.fr/-W5Y</a>



#### Contact Information

PHS-electronic gmbh - www.phs-memory.fr -Karl-Götz-Str. 5 97424 Schweinfurt Allemagne Phone: +49 9721 784678 E-Mail: info@phs-memory.fr Web: www.phs-memory.fr

All information without guarantee. Technical changes and errors excepted. You can find current price information in our online shop at https://www.phs-memory.fr