innodisk

The Total Solution For Industrial Flash Storage

# Data Sheet

| | |
|---|---|
| **Module Type** | **DDR4 VLP UDIMM** |
| **Capacity** | **4GB/8GB/16GB** |
| **Module speed** | **Up to 2666MT/s** |
| **Pin** | **288 pin** |
| **Cl-tRCD-tRP** | **19-19-19** |
| **Operating Temp** | **0℃~85℃** |

Rev 1.0

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# 1. Features

| Industry Nomenclature | Speed Grade | Data Rate MT/s | | | CL | tRCD | tRP |
|---|---|---|---|---|---|---|---|
| | | CL=15 | CL=17 | CL=19 | | | |
| **PC4-2666** | **I** | 2133 | 2400 | 2666 | 19 | 19 | 19 |

- JEDEC Standard 288-pin Dual In-Line Memory Module
- Intend for PC4-2666 applications
- Inputs and Outputs are SSTL-12 compatible
- $V_{DD}$=$V_{DDQ}$= 1.2 Volt (1.14V~1.26V)
- $V_{PP}$=2.5 Volt (2.375V~2.75V)
- $V_{DDSPD}$=2.2-3.6V
- Low-Power auto self-refresh (LPASR)
- SDRAMs have 16 internal banks for concurrent operation (4 Bank Group of 4 banks each)
- Normal and Dynamic On-Die Termination for data, strobe and mask signals.
- Data bus inversion (DBI) for data bus
- Fixed burst chop (BC) of 4 and burst length (BL) of 8 via the MRS
- Selectable BC4 or BL8 on-the fly (OTF)
- Golden Connector
- Fly-By topology
- Terminated control, command and address bus
- Programmable /CAS Latency: 10,11,12,13,14,15,16,17,18,19,20
- Operation temperature – (0℃~85℃)
- On-die $V_{REFDQ}$ generation and Calibration
- On-Board EEPROM
- RoHS and Halogen free
- Height 18.75mm



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## 2. Ordering Information

| Density | Component Composition | Part Number | Description |
|---|---|---|---|
| 4GB | 512Mx8 | M4U0-4GSSVCSJ | DDR4 2400 1Rx8 UDIMM VLP 1.2V |
| 8GB | 512Mx8 | M4U0-8GSSWCSJ | DDR4 2400 2Rx8 UDIMM VLP 1.2V |
| 8GB | 1Gx8 | M4U0-8GS1VCSJ | DDR4 2400 1Rx8 UDIMM VLP 1.2V |
| 16GB | 1Gx8 | M4U0-AGS1WCSJ | DDR4 2400 2Rx8 UDIMM VLP 1.2V |
| 4GB | 512Mx8 | M4U0-4GSSVCIK | DDR4 2666 1Rx8 UDIMM VLP 1.2V |
| 8GB | 512Mx8 | M4U0-8GSSWCIK | DDR4 2666 2Rx8 UDIMM VLP 1.2V |
| 8GB | 1Gx8 | M4U0-8GS1VCIK | DDR4 2666 1Rx8 UDIMM VLP 1.2V |
| 16GB | 1Gx8 | M4U0-AGS1WCIK | DDR4 2666 2Rx8 UDIMM VLP 1.2V |



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