

Product Brief

Overview

Netlist offers a wide lineup of leading-edge commercial and industrial grade DDR3 DIMMs. All memory and storage products are 100% system tested from -40°C to +95°C for Industrial Temp Grade and from 0°C to +85°C for Commercial Temp Grade. Netlist's rigorous testing process is specifically designed to ensure these modules will operate reliably in harsh, long-life computing environments and densely configured computing applications with limited airflow.

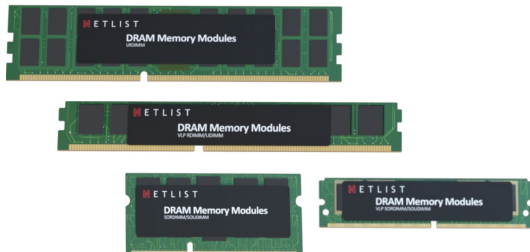
Available in registered and unbuffered with ECC or non-ECC configurations, include standard Low-Profile height, Very Low Profile and Mini DIMMs. OEMs can choose Netlist industry-standard and custom modules with confidence knowing Netlist designs, manufactures, and rigorously tests each unit.

Benefits

- Long term supply
- Locked BOM support
- High quality
- 100% system level testing
- Technical support

Applications

- IOT computing / storage servers
- Network servers and equipment
- Industrial systems
- Ruggedized industrial servers
- Medical Equipment
- Embedded systems
- Automotive Applications



Features

- DDR3 functionality and operation
- JEDEC Standard 1.35V and 1.5V Power Supply
- VDDSPD = +3V to +3.6V Operating Temperature
 - $T_{CASE} = 0^{\circ}C$ to $+85^{\circ}C$ for Commercial Grade
 - $T_{CASE} = -40^{\circ}C$ to $+95^{\circ}C$ for Industrial Grade
- Various JEDEC Standard Form Factors
 - Low Profile
 - RDIMM
 - ECC UDIMM
 - Non-ECC UDIMM
 - ECC SODIMM
 - Non-ECC SODIMM
 - SO-RDIMM
 - Very Low Profile
 - VLP RDIMM
 - VLP ECC-UDIMM
 - VLP Non-ECC UDIMM
 - VLP SO_RDIMM
 - Mini DIMM
 - Mini RDIMM
 - Mini ECC UDIMM
 - Mini Non-ECC UDIMM
 - Mini VLP DIMM
 - Mini VLP RDIMM
 - Mini VLP ECC-UDIMM
 - Mini VLP UDIMM
- Data Transfer Rates
 - Up to PC3-1866
- Nominal and dynamic On-Die Termination (ODT) for data, data strobe, and data mask signals
- Terminated control, command, and address signals
- Fly-by topology
- Fixed Burst Chop (BC) of 4 and Burst Length (BL) of 8
- Selectable BL of 4 or 8
- RoHS compliant (Lead-free)
- Conformal Coating and BGA underfill are available upon request

Product Line up

*(I) : Industrial Grade

Form Factor	Density	Voltage	Organization	Max Speed	Part Number
RDIMM	32GB	1.35V(1.5V)	4Gx72 (2Rank)	1866MT/s	NLD4G7T32G03C(H)D18wxyz(I)
	16GB	1.35V(1.5V)	2Gx72 (2Rank)	1866MT/s	NLD2G7T31G07C(H)D18wxyz(I)
	8GB	1.35V(1.5V)	1Gx72 (1Rank)	1866MT/s	NLD1G7T31G07C(H)D18wxyz(I)
	4GB	1.35V(1.5V)	512Mx72 (1Rank)	1866MT/s	NLD517T35107C(H)D18wxyz(I)
	2GB	1.35V(1.5V)	256Mx72(1Rank)	1866MT/s	NLD257T32507C(H)D18wxyz(I)
ECC UDIMM	16GB	1.35V(1.5V)	2Gx72 (2Rank)	1866MT/s	NLD2G7231G07C(H)D18A0yz(I)
	8GB	1.35V(1.5V)	1Gx72 (1Rank)	1866MT/s	NLD1G7231G07C(H)D18A0yz(I)
	4GB	1.35V(1.5V)	512Mx72 (1Rank)	1866MT/s	NLD517235107C(H)D18A0yz(I)
	2GB	1.35V(1.5V)	256Mx72(1Rank)	1866MT/s	NLD257232507C(H)D18A0yz(I)
Non-ECC UDIMM	16GB	1.35V(1.5V)	2Gx64 (2Rank)	1866MT/s	NLD2G6431G07C(H)D18A0yz(I)
	8GB	1.35V(1.5V)	1Gx64 (1Rank)	1866MT/s	NLD1G6431G07C(H)D18A0yz(I)
	4GB	1.35V(1.5V)	512Mx64 (1Rank)	1866MT/s	NLD516435107C(H)D18A0yz(I)
	2GB	1.35V(1.5V)	256Mx64(1Rank)	1866MT/s	NLD256432507C(H)D18A0yz(I)
ECC SoDIMM	16GB	1.35V(1.5V)	2Gx72 (2Rank)	1866MT/s	NLQ2G7232G071C(H)18A0yz(I)
	8GB	1.35V(1.5V)	1Gx72 (1Rank)	1866MT/s	NLQ1G7231G071C(H)18A0yz(I)
	4GB	1.35V(1.5V)	512Mx72 (1Rank)	1866MT/s	NLQ5172351071C(H)18A0yz(I)
	2GB	1.35V(1.5V)	256Mx72(1Rank)	1866MT/s	NLQ2572325071C(H)18A0yz(I)
Non-ECC SoDIMM	16GB	1.35V(1.5V)	2Gx64 (2Rank)	1866MT/s	NLQ2G6431G071C(H)18A0yz(I)
	8GB	1.35V(1.5V)	1Gx64 (1Rank)	1866MT/s	NLQ1G6431G071C(H)18A0yz(I)
	4GB	1.35V(1.5V)	512Mx64 (1Rank)	1866MT/s	NLQ5164351071C(H)18A0yz(I)
	2GB	1.35V(1.5V)	256Mx64(1Rank)	1866MT/s	NLQ2564325071C(H)18A0yz(I)
ECC SO-RDIMM	16GB	1.35V(1.5V)	2Gx72 (2Rank)	1866MT/s	NLQ2G7T31G071C(H)18wxyz(I)
	8GB	1.35V(1.5V)	1Gx72 (1Rank)	1866MT/s	NLQ1G7T31G071C(H)18wxyz(I)
	4GB	1.35V(1.5V)	512Mx72 (1Rank)	1866MT/s	NLQ517T351071C(H)18wxyz(I)
	2GB	1.35V(1.5V)	256Mx72(1Rank)	1866MT/s	NLQ257T325071C(H)18wxyz(I)
VLP RDIMM	16GB	1.35V(1.5V)	2Gx72 (2Rank)	1866MT/s	NVD2G7T31G071C(H)18wxyz(I)
	8GB	1.35V(1.5V)	1Gx72 (1Rank)	1866MT/s	NVD1G7T31G071C(H)18wxyz(I)
	4GB	1.35V(1.5V)	512Mx72 (1Rank)	1866MT/s	NVD517T351071C(H)18wxyz(I)
	2GB	1.35V(1.5V)	256Mx72(1Rank)	1866MT/s	NVD257T325071C(H)18wxyz(I)
VLP ECC UDIMM	16GB	1.35V(1.5V)	2Gx72 (2Rank)	1866MT/s	NVD2G7231G071C(H)18A0yz(I)
	8GB	1.35V(1.5V)	1Gx72 (1Rank)	1866MT/s	NVD1G7231G071C(H)18A0yz(I)
	4GB	1.35V(1.5V)	512Mx72 (1Rank)	1866MT/s	NVD5172351071C(H)18A0yz(I)
	2GB	1.35V(1.5V)	256Mx72(1Rank)	1866MT/s	NVD5172351071C(H)18A0yz(I)

**For sales inquiries, please contact Netlist at memory@netlist.com or visit our website at Netlist.com. For Distribution sales, please visit us at www.digikey.com/en/supplier-centers/netlist-inc.

NETLIST DDR3 DIMMs



Product Brief

NETLIST

Product Line up

*(I) : Industrial Grade

Form Factor	Density	Voltage	Organization	Max Speed	Part Number
VLP Non-ECC UDIMM	16GB	1.35V(1.5V)	2Gx72 (2Rank)	1866MT/s	NVD2G6431G071C(H)18A0yz(I)
	8GB	1.35V(1.5V)	1Gx72 (1Rank)	1866MT/s	NVD1G6431G071C(H)18A0yz(I)
	4GB	1.35V(1.5V)	512Mx72 (1Rank)	1866MT/s	NVD5164351071C(H)18A0yz(I)
	2GB	1.35V(1.5V)	256Mx72(1Rank)	1866MT/s	NVD2564325071C(H)18A0yz(I)
VLP So-RDIMM	16GB	1.35V(1.5V)	2Gx72 (2Rank)	1866MT/s	NVQ2G7T31G071C(H)18wxyz(I)
	8GB	1.35V(1.5V)	1Gx72 (1Rank)	1866MT/s	NVQ1G7T31G071C(H)18wxyz(I)
	4GB	1.35V(1.5V)	512Mx72 (1Rank)	1866MT/s	NVQ517T351071C(H)18wxyz(I)
	2GB	1.35V(1.5V)	256Mx72(1Rank)	1866MT/s	NVQ257T325071C(H)18wxyz(I)
Mini RDIMM	8GB	1.35V(1.5V)	1Gx72 (1Rank)	1866MT/s	NMW1G7T31G071C(H)18wxyz(I)
	4GB	1.35V(1.5V)	512Mx72 (1Rank)	1866MT/s	NMW517T351071C(H)18wxyz(I)
	2GB	1.35V(1.5V)	256Mx72(1Rank)	1866MT/s	NMW257T325071C(H)18wxyz(I)
Mini ECC- UDIMM	8GB	1.35V(1.5V)	1Gx72 (1Rank)	1866MT/s	NMW1G7231G071C(H)18A0yz(I)
	4GB	1.35V(1.5V)	512Mx72 (1Rank)	1866MT/s	NMW5172351071C(H)18A0yz(I)
	2GB	1.35V(1.5V)	256Mx72(1Rank)	1866MT/s	NMW2572325071C(H)18A0yz(I)
Mini Non-ECC UDIMM	8GB	1.35V(1.5V)	1Gx64 (1Rank)	1866MT/s	NMW1G6431G071C(H)18A0yz(I)
	4GB	1.35V(1.5V)	512Mx64 (1Rank)	1866MT/s	NMW5164351071C(H)18A0yz(I)
	2GB	1.35V(1.5V)	256Mx72(1Rank)	1866MT/s	NMW2564325071C(H)18A0yz(I)
Mini VLP RDIMM	8GB	1.35V(1.5V)	1Gx72 (1Rank)	1866MT/s	NUW1G7T31G071C(H)18wxyz(I)
	4GB	1.35V(1.5V)	512Mx72 (1Rank)	1866MT/s	NUW517T351071C(H)18wxyz(I)
	2GB	1.35V(1.5V)	256Mx72(1Rank)	1866MT/s	NUW257T325071C(H)18wxyz(I)
Mini VLP ECC UDIMM	8GB	1.35V(1.5V)	1Gx72 (1Rank)	1866MT/s	NUW1G7231G071C(H)18A0yz(I)
	4GB	1.35V(1.5V)	512Mx72 (1Rank)	1866MT/s	NUW5172351071C(H)18A0yz(I)
	2GB	1.35V(1.5V)	256Mx72(1Rank)	1866MT/s	NUW2572325071C(H)18A0yz(I)
Mini VLP Non-ECC UDIMM	8GB	1.35V(1.5V)	1Gx64 (1Rank)	1866MT/s	NUW1G6431G071C(H)18A0yz(I)
	4GB	1.35V(1.5V)	512Mx64 (1Rank)	1866MT/s	NUW5164351071C(H)18A0yz(I)
	2GB	1.35V(1.5V)	256Mx72(1Rank)	1866MT/s	NUW2564325071C(H)18A0yz(I)

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Netlist Sales Representatives

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Gillas Associates | www.gillaspysales.com

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Universal Technology | www.ut.com

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Challenge Sales | www.challengesales.com

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TriStar Group | www.tristargroupinc.com

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Up-market Inc. | www.up-market.ca

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EMY-tech | www.emy-tech.com

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If you do not see your territory covered by a sales representative, simply email us at memory@netlist.com