

## AAT160D3N/4G

4GB DDR3-1600MHz 1.5V 240-PIN CL11 DIMM

### Features

- JEDEC standard 1.5V (1.425V ~1.575V) Power Supply
- VDDQ = 1.5V (1.425V ~ 1.575V)
- 800MHz fCK for 1600Mb/sec/pin
- 8 independent internal bank
- Programmable CAS Latency: 11, 10, 9, 8, 7, 6
- Programmable Additive Latency: 0, CL - 2, or CL - 1 clock
- 8-bit pre-fetch
- Burst Length: 8 (Interleave without any limit, sequential with starting address "000" only), 4 with tCCD = 4 which does not allow seamless read or write [either on the fly using A12 or MRS]
- Bi-directional Differential Data Strobe
- Internal(self) calibration: Internal self-calibration through ZQ pin (RZQ: 240 ohm  $\pm$  1%)
- On Die Termination using ODT pin
- Average Refresh Period 7.8us at lower than TCASE 85°C, 3.9us at 85°C < TCASE < 95°C
- Asynchronous Reset
- PCB: Height 0.740" (18.75mm) or 1.180" (30.00mm)



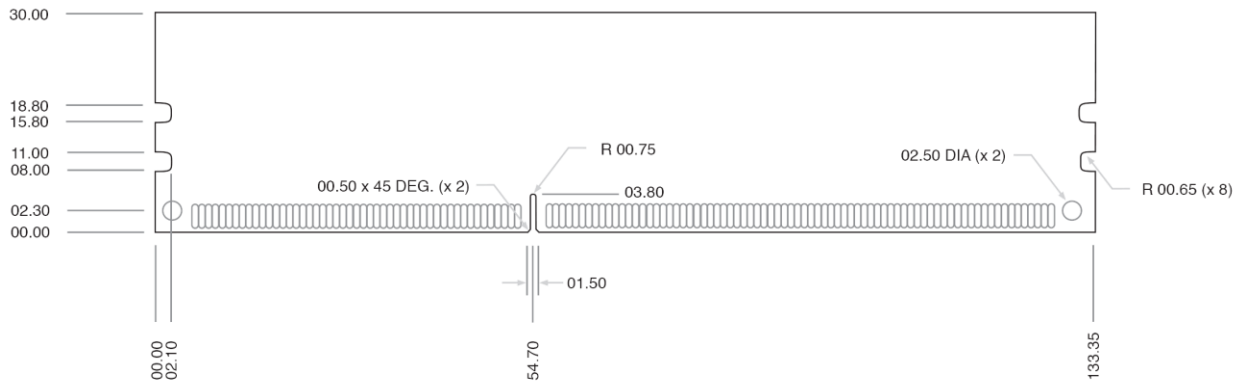
### Product Description

This Industry Standard 4GB DDR3-1600MHz TAA Compliant Dual Rank Unbuffered 1.5V 240-pin CL11 DIMM is 100% guaranteed to be compatible with your system and to work right the first time. Adding additional memory is the best way to increase the performance of your system. All our memory is built to strict JEDEC standards to meet or exceed the Tier 1 OEM's factory requirements. Our products are also guaranteed by federal law to not affect or void OEM warranties.

## Specifications

Parameter	
Form Factor	DIMM
Memory Size	4Gb
Speed	1600MHz
Voltage	1.5V
Rank	Dual
DIMM Type	Unbuffered
Row Cycle Time (tRCmin)	48.125ns (min.)
Refresh to Active (tRFmin)	260ns (min.)
CL (IDD)	11 cycles
Row Active Time (tRASmin)	35ns (min.)
UL Rating	94 V - 0
Operating Temperature	0° C to 85° C
Storage Temperature	-55° C to +100° C

## Mechanical Description



## Contact Information

Founded in 1999, AddOn Networks is North America's leading provider of transceivers and high-speed cabling. With a reputation for high quality products as well as an extensive custom design portfolio, AddOn has the connectivity solution regardless of the requirement.

At AddOn, 100% of the products we ship every day are tested in the specific application for which they are intended—never batch or spec tested only. We run bandwidth, distance and IOS network tests. We have documented an impressive 0.03% failure rate over the last 10 years. To continue this rate of success we invest millions annually in our own on-site testing lab.

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