

## GENERAL DESCRIPTION



DDR5 U-DIMM memory supports the latest Intel/AMD processors, suitable for desktop computers, with better transmission speed and power saving performance! Using 288-pin pin design, working voltage 1.1V or 1.25V, allowing you to experience the speed of light performance! The memory particles used all comply with the design and production specifications of JEDEC ,and RoHS to ensure system compatibility.

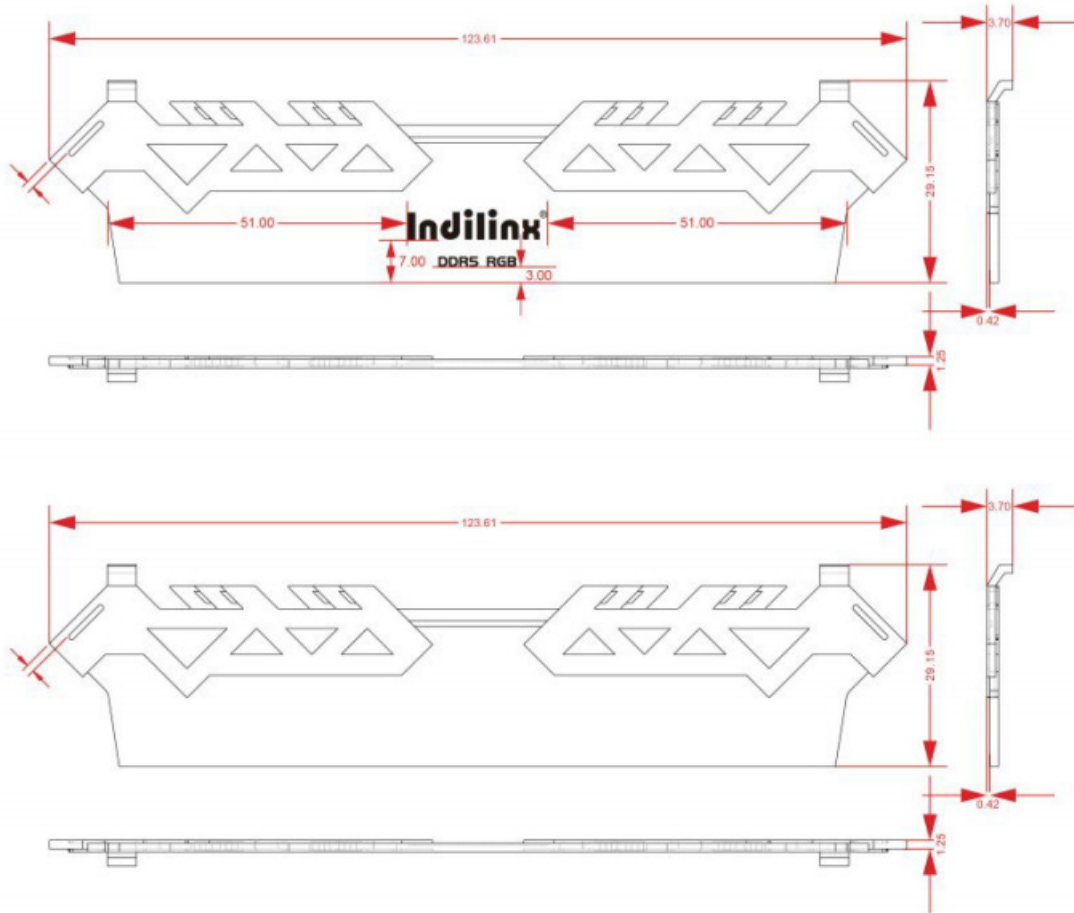
## FEATURES

- VDD=VDDQ=1.1V or 1.25V +/- 0.06V
- VPP = 1.8V, -125mV/+250mV
- On-die, internal, adjustable VREFDQ generation
- 1.1V pseudo open-drain I/O
- TC maximum up to 95°C – 32ms, 8192-cycle refresh up to 85°C – 16ms, 8192-cycle refresh at >85°C to 95°C
- 32 internal banks (x4, x8): 8 groups of 4 banks each
- 16 internal banks (x16): 4 groups of 4 banks each
- 16n-bit prefetch architecture
- 1 cycle/2 cycle command structure
- 2n mode
- All bank and same bank refresh
- Multi-purpose command (MPC)
- CS/CA training mode
- ECC transparency and error scrub
- Decision feedback equalization (DFE)
- Loopback mode
- Command-based non-target (NT) nominal, DQ/DQS park, and dynamic WR on-die termination (ODT)
- sPPR and hPPR capability
- JEDEC JESD-79.5 compliant

## Information for Compliant Product

Product Type	Compliance Code
IND-GD5P48SP16X	16GB DDR5-4800 40/40/40/82
IND-GD5P52SP16X	16GB DDR5-5200 42/42/42/83
IND-GD5P56SP16X	16GB DDR5-5600 46/46/46/90
IND-GD5P60SP16X	16GB DDR5-6000 38/46/46/90
IND-GD5P64SP16X	16GB DDR5-6400 38/50/50/96

## Physical Dimensions



Note:  
All dimensions are in millimeters[mils] and should be kept within a tolerance of  $\pm 0.15[6]$ , unless otherwise specified.

※Above Picture is for reference only!

Units: Millimeters