

# DDR4 ELITE<sup>+</sup>



## ELITE PLUS

TEAMGROUP's ELITE series launches an all new DDR4 memory module product, with an operating voltage of only 1.2V, which saves a lot of power consumption. It reduces the heat generated by the product itself and also maintains the ambient temperature around the system. This product is fully compliant with JEDEC standards and is guaranteed to be 100% compatible with all major platforms on the market. Both single channel and dual channel package are released at the same time to meet the needs of different levels of users. With up to 64GB Kit (32GBx2) of temporary storage space, data processing speed is twice as fast. The superb performance of TEAMGROUP's ELITE series provides you with excellent quality of stability, long-term efficiency and low power consumption.

## Main Feature

- New-generation product of DRAM module
- 1.2 V memory module
- Massive 32 GB Kit capacity
- Lifetime warranty
- Compared with DDR3-1866, the bandwidth performance is improved by 12.35%

## Specification

|                         |                                                                           |                         |                         |                         |
|-------------------------|---------------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|
| Module Type             | DDR4 288 Pin Non-ECC Unbuffered DIMM                                      |                         |                         |                         |
| Capacity                | 4GB / 4GBx2 / 4GBx4 / 8GB / 8GBx2 / 8GBx4 / 16GB / 16GBx2 / 32GB / 32GBx2 |                         |                         |                         |
| Frequency               | 2133MHz                                                                   | 2400MHz                 | 2666MHz                 | 3200MHz                 |
| Data Transfer Bandwidth | 17,000 MB/s (PC4 17000)                                                   | 19,200 MB/s (PC4 19200) | 21,300 MB/s (PC4 21300) | 25,600 MB/s (PC4 25600) |
| Latency                 | CL15-15-15-36                                                             | CL16-16-16-39           | CL19-19-19-43           | CL22-22-22-52           |
| Voltage                 | 1.2V                                                                      |                         |                         |                         |
| Dimensions              | 32(H) x 134(L) x 6.5(W)mm                                                 |                         |                         |                         |
| Heat Spreader           | Aluminum heat spreader                                                    |                         |                         |                         |
| Warranty                | Lifetime warranty                                                         |                         |                         |                         |

## Ordering Information



| Color        | Frequency             | CAS Latency/Voltage | Capacity | IC Specifications | Team P/N          |
|--------------|-----------------------|---------------------|----------|-------------------|-------------------|
| Gold & Black | DDR4-2133 (PC4-17000) | CL15-15-15-36 1.2V  | 4GB      | x8                | TPD44G2133HC1501  |
|              |                       |                     | 8GB      | x8                | TPD48G2133HC1501  |
|              |                       |                     | 16GB     | x8                | TPD416G2133HC1501 |
|              | DDR4-2400 (PC4-19200) | CL16-16-16-39 1.2V  | 4GB      | x8                | TPD44G2400HC1601  |
|              |                       |                     | 8GB      | x8                | TPD48G2400HC1601  |
|              |                       |                     | 16GB     | x8                | TPD416G2400HC1601 |
|              |                       |                     | 32GB     | x8                | TPD432G2400HC1601 |

## Ordering Information



| Color        | Frequency                | CAS Latency/Voltage | Capacity | IC Specifications | Team P/N          |
|--------------|--------------------------|---------------------|----------|-------------------|-------------------|
| Gold & Black | DDR4-2666<br>(PC4-21300) | CL19-19-19-43 1.2V  | 4GB      | x8                | TPD44G2666HC1901  |
|              |                          |                     | 8GB      | x8                | TPD48G2666HC1901  |
|              |                          |                     | 8GB      | X16               | TPD48G2666HC19016 |
|              |                          |                     | 16GB     | x8                | TPD416G2666HC1901 |
|              |                          |                     | 32GB     | x8                | TPD432G2666HC1901 |
|              | DDR4-3200<br>(PC4-25600) | CL22-22-22-52 1.2V  | 8GB      | x8                | TPD44G3200HC2201  |
|              |                          |                     | 8GB      | x16               | TPD48G3200HC2201  |
|              |                          |                     | 16GB     | x8                | TPD48G3200HC22016 |
|              |                          |                     | 32GB     | x8                | TPD416G3200HC2201 |
|              |                          |                     | 4GB      | x8                | TPD432G3200HC2201 |

| Color        | Frequency                         | CAS Latency/Voltage | Capacity | IC Specifications | Team P/N          |
|--------------|-----------------------------------|---------------------|----------|-------------------|-------------------|
| Gold & Black | DDR4-2400<br>(PC4-19200)<br>(AMD) | CL16-16-16-39 1.2V  | 4GB      | x8                | TPD44G2400HC1602  |
|              |                                   |                     | 8G       | x8                | TPD48G2400HC1602  |
|              |                                   |                     | 16GB     | x8                | TPD416G2400HC1602 |
|              |                                   |                     | 32GB     | x8                | TPD432G2400HC1602 |
|              | DDR4-2666<br>(PC4-21300)<br>(AMD) | CL19-19-19-43 1.2V  | 4GB      | x8                | TPD44G2666HC1902  |
|              |                                   |                     | 8GB      | x8                | TPD48G2666HC1902  |
|              |                                   |                     | 8GB      | x16               | TPD48G2666HC19026 |
|              |                                   |                     | 16GB     | x8                | TPD416G2666HC1902 |
|              |                                   |                     | 32GB     | x8                | TPD432G2666HC1902 |
|              | DDR4-3200<br>(PC4-25600)<br>(AMD) | CL22-22-22-52 1.2V  | 4GB      | x8                | TPD44G3200HC2202  |
|              |                                   |                     | 8GB      | x8                | TPD48G3200HC2202  |
|              |                                   |                     | 8GB      | x16               | TPD48G3200HC22026 |
|              |                                   |                     | 16GB     | x8                | TPD416G3200HC2202 |
|              |                                   |                     | 32GB     | x8                | TPD432G3200HC2202 |

| Color        | Frequency                | CAS Latency/Voltage | Capacity | IC Specifications | Team P/N             |
|--------------|--------------------------|---------------------|----------|-------------------|----------------------|
| Gold & Black | DDR4-2133<br>(PC4-17000) | CL15-15-15-36 1.2V  | 4GBX2    | x8                | TPD48G2133HC15DC01   |
|              |                          |                     | 8GBX2    | x8                | TPD416G2133HC15DC01  |
|              |                          |                     | 16GBX2   | x8                | TPD432G2133HC15DC01  |
|              |                          |                     | 4GBx4    | x8                | TPD416G2133HC15QC01  |
|              |                          |                     | 8GBx4    | x8                | TPD432G2133HC15QC01  |
|              | DDR4-2400<br>(PC4-19200) | CL16-16-16-39 1.2V  | 4GBX2    | x8                | TPD48G2400HC16DC01   |
|              |                          |                     | 8GBX2    | x8                | TPD416G2400HC16DC01  |
|              |                          |                     | 16GBX2   | x8                | TPD432G2400HC16DC01  |
|              |                          |                     | 32GBx2   | x8                | TPD464G2400HC16DC01  |
|              |                          |                     | 4GBx4    | x8                | TPD416G2400HC16QC01  |
|              |                          |                     | 8GBx4    | x8                | TPD432G2400HC16QC01  |
|              | DDR4-2666<br>(PC4-21300) | CL19-19-19-43 1.2V  | 4GBX2    | x8                | TPD48G2666HC19DC01   |
|              |                          |                     | 8GBX2    | x8                | TPD416G2666HC19DC01  |
|              |                          |                     | 8GBX2    | x16               | TPD416G2666HC19DC016 |
|              |                          |                     | 16GBX2   | x8                | TPD432G2666HC19DC01  |
|              |                          |                     | 32GBx2   | x8                | TPD464G2666HC19DC01  |
|              |                          |                     | 4GBx4    | x8                | TPD416G2666HC19QC01  |
|              |                          |                     | 8GBx4    | x8                | TPD432G2666HC19QC01  |
|              | DDR4-3200<br>(PC4-25600) | CL22-22-22-52 1.2V  | 4GBX2    | x8                | TPD48G3200HC22DC01   |
|              |                          |                     | 8GBX2    | x8                | TPD416G3200HC22DC01  |
|              |                          |                     | 8GBX2    | x16               | TPD416G3200HC22DC016 |
|              |                          |                     | 16GBX2   | x8                | TPD432G3200HC22DC01  |
|              |                          |                     | 32GBX2   | x8                | TPD464G3200HC22DC01  |

## Ordering Information



| Color              | Frequency                         | CAS Latency/Voltage | Capacity | IC Specifications | Team P/N             |
|--------------------|-----------------------------------|---------------------|----------|-------------------|----------------------|
| Gold<br>&<br>Black | DDR4-2400<br>(PC4-19200)<br>(AMD) | CL16-16-16-39 1.2V  | 4GBX2    | x8                | TPD48G2400HC16DC02   |
|                    |                                   |                     | 8GBX2    | x8                | TPD416G2400HC16DC02  |
|                    |                                   |                     | 16GBX2   | x8                | TPD432G2400HC16DC02  |
|                    |                                   |                     | 32GBx2   | x8                | TPD464G2400HC16DC02  |
|                    | DDR4-2666<br>(PC4-21300)<br>(AMD) | CL19-19-19-43 1.2V  | 4GBX2    | x8                | TPD48G2666HC19DC02   |
|                    |                                   |                     | 8GBX2    | x8                | TPD416G2666HC19DC02  |
|                    |                                   |                     | 8GBX2    | x16               | TPD416G2666HC19DC026 |
|                    |                                   |                     | 16GBX2   | x8                | TPD432G2666HC19DC02  |
|                    |                                   |                     | 32GBx2   | x8                | TPD464G2666HC19DC02  |
|                    | DDR4-3200<br>(PC4-25600)<br>(AMD) | CL22-22-22-52 1.2V  | 4GBX2    | x8                | TPD48G3200HC22DC02   |
|                    |                                   |                     | 8GBX2    | x8                | TPD416G3200HC22DC02  |
|                    |                                   |                     | 8GBX2    | x16               | TPD416G3200HC22DC026 |
|                    |                                   |                     | 16GBX2   | x8                | TPD432G3200HC22DC02  |
|                    |                                   |                     | 32GBX2   | x8                | TPD464G3200HC22DC02  |

| Color             | Frequency                | CAS Latency/Voltage | Capacity | IC Specifications | Team P/N           |
|-------------------|--------------------------|---------------------|----------|-------------------|--------------------|
| Red<br>&<br>Black | DDR4-2133<br>(PC4-17000) | CL15-15-15-36 1.2V  | 4GB      | x8                | TPRD44G2133HC1501  |
|                   |                          |                     | 8GB      | x8                | TPRD48G2133HC1501  |
|                   |                          |                     | 16GB     | x8                | TPRD416G2133HC1501 |
|                   | DDR4-2400<br>(PC4-19200) | CL16-16-16-39 1.2V  | 4GB      | x8                | TPRD44G2400HC1601  |
|                   |                          |                     | 8GB      | x8                | TPRD48G2400HC1601  |
|                   |                          |                     | 16GB     | x8                | TPRD416G2400HC1601 |
|                   |                          |                     | 32GB     | x8                | TPRD432G2400HC1601 |
|                   | DDR4-2666<br>(PC4-21300) | CL19-19-19-43 1.2V  | 4GB      | x8                | TPRD44G2666HC1901  |
|                   |                          |                     | 8GB      | x8                | TPRD48G2666HC1901  |
|                   |                          |                     | 8GB      | x16               | TPRD48G2666HC19016 |
|                   |                          |                     | 16GB     | x8                | TPRD416G2666HC1901 |
|                   |                          |                     | 32GB     | x8                | TPRD432G2666HC1901 |
|                   | DDR4-3200<br>(PC4-25600) | CL22-22-22-52 1.2V  | 4GB      | x8                | TPRD44G3200HC2201  |
|                   |                          |                     | 8GB      | x8                | TPRD48G3200HC2201  |
|                   |                          |                     | 8GB      | x16               | TPRD48G3200HC22016 |
|                   |                          |                     | 16GB     | x8                | TPRD416G3200HC2201 |
|                   |                          |                     | 32GB     | x8                | TPRD432G3200HC2201 |



| Color             | Frequency                         | CAS Latency/Voltage | Capacity | IC Specifications | Team P/N           |
|-------------------|-----------------------------------|---------------------|----------|-------------------|--------------------|
| Red<br>&<br>Black | DDR4-2400<br>(PC4-19200)<br>(AMD) | CL16-16-16-39 1.2V  | 4GB      | x8                | TPRD44G2400HC1602  |
|                   |                                   |                     | 8G       | x8                | TPRD48G2400HC1602  |
|                   |                                   |                     | 16GB     | x8                | TPRD416G2400HC1602 |
|                   |                                   |                     | 32GB     | x8                | TPRD432G2400HC1602 |
|                   | DDR4-2666<br>(PC4-21300)<br>(AMD) | CL19-19-19-43 1.2V  | 4GB      | x8                | TPRD44G2666HC1902  |
|                   |                                   |                     | 8GB      | x8                | TPRD48G2666HC1902  |
|                   |                                   |                     | 8GB      | x16               | TPRD48G2666HC19026 |
|                   |                                   |                     | 16GB     | x8                | TPRD416G2666HC1902 |
|                   |                                   |                     | 32GB     | x8                | TPRD432G2666HC1902 |
|                   | DDR4-3200<br>(PC4-25600)<br>(AMD) | CL22-22-22-52 1.2V  | 4GB      | x8                | TPRD44G3200HC2202  |
|                   |                                   |                     | 8GB      | x8                | TPRD48G3200HC2202  |
|                   |                                   |                     | 8GB      | x16               | TPRD48G3200HC22026 |
|                   |                                   |                     | 16GB     | x8                | TPRD416G3200HC2202 |
|                   |                                   |                     | 32GB     | x8                | TPRD432G3200HC2202 |

## Ordering Information



| Color             | Frequency                | CAS Latency/Voltage | Capacity | IC Specifications | Team P/N              |
|-------------------|--------------------------|---------------------|----------|-------------------|-----------------------|
| Red<br>&<br>Black | DDR4-2133<br>(PC4-17000) | CL15-15-15-36 1.2V  | 4GBX2    | x8                | TPRD48G2133HC15DC01   |
|                   |                          |                     | 8GBX2    | x8                | TPRD416G2133HC15DC01  |
|                   |                          |                     | 16GBX2   | x8                | TPRD432G2133HC15DC01  |
|                   |                          |                     | 4GBx4    | x8                | TPRD416G2133HC15QC01  |
|                   |                          |                     | 8GBx4    | x8                | TPRD432G2133HC15QC01  |
|                   | DDR4-2400<br>(PC4-19200) | CL16-16-16-39 1.2V  | 4GBX2    | x8                | TPRD48G2400HC16DC01   |
|                   |                          |                     | 8GBX2    | x8                | TPRD416G2400HC16DC01  |
|                   |                          |                     | 16GBX2   | x8                | TPRD432G2400HC16DC01  |
|                   |                          |                     | 32GBx2   | x8                | TPRD464G2400HC16DC01  |
|                   |                          |                     | 4GBx4    | x8                | TPRD416G2400HC16QC01  |
|                   | DDR4-2666<br>(PC4-21300) | CL19-19-19-43 1.2V  | 8GBx4    | x8                | TPRD432G2400HC16QC01  |
|                   |                          |                     | 4GBX2    | x8                | TPRD48G2666HC19DC01   |
|                   |                          |                     | 8GBX2    | x8                | TPRD416G2666HC19DC01  |
|                   |                          |                     | 8GBX2    | x16               | TPRD416G2666HC19DC016 |
|                   |                          |                     | 16GBX2   | x8                | TPRD432G2666HC19DC01  |
|                   |                          |                     | 32GBx2   | x8                | TPRD464G2666HC19DC01  |
|                   |                          |                     | 4GBx4    | x8                | TPRD416G2666HC19QC01  |
|                   | DDR4-3200<br>(PC4-25600) | CL22-22-22-52 1.2V  | 8GBx4    | x8                | TPRD432G2666HC19QC01  |
|                   |                          |                     | 4GBX2    | x8                | TPRD48G3200HC22DC01   |
|                   |                          |                     | 8GBX2    | x8                | TPRD416G3200HC22DC01  |
|                   |                          |                     | 8GBX2    | x16               | TPRD416G3200HC22DC016 |
|                   |                          |                     | 16GBX2   | x8                | TPRD432G3200HC22DC01  |
|                   |                          |                     | 32GBX2   | x8                | TPRD464G3200HC22DC01  |

| Color             | Frequency                         | CAS Latency/Voltage | Capacity | IC Specifications | Team P/N              |
|-------------------|-----------------------------------|---------------------|----------|-------------------|-----------------------|
| Red<br>&<br>Black | DDR4-2400<br>(PC4-19200)<br>(AMD) | CL16-16-16-39 1.2V  | 4GBX2    | x8                | TPRD48G2400HC16DC02   |
|                   |                                   |                     | 8GBX2    | x8                | TPRD416G2400HC16DC02  |
|                   |                                   |                     | 16GBX2   | x8                | TPRD432G2400HC16DC02  |
|                   |                                   |                     | 32GBx2   | x8                | TPRD464G2400HC16DC02  |
|                   | DDR4-2666<br>(PC4-21300)<br>(AMD) | CL19-19-19-43 1.2V  | 4GBX2    | x8                | TPRD48G2666HC19DC02   |
|                   |                                   |                     | 8GBX2    | x8                | TPRD416G2666HC19DC02  |
|                   |                                   |                     | 8GBX2    | x16               | TPRD416G2666HC19DC026 |
|                   |                                   |                     | 16GBX2   | x8                | TPRD432G2666HC19DC02  |
|                   | DDR4-3200<br>(PC4-25600)<br>(AMD) | CL22-22-22-52 1.2V  | 32GBx2   | x8                | TPRD464G2666HC19DC02  |
|                   |                                   |                     | 4GBX2    | x8                | TPRD48G3200HC22DC02   |
|                   |                                   |                     | 8GBX2    | x8                | TPRD416G3200HC22DC02  |
|                   |                                   |                     | 8GBX2    | x16               | TPRD416G3200HC22DC026 |
|                   |                                   |                     | 16GBX2   | x8                | TPRD432G3200HC22DC02  |
|                   |                                   |                     | 32GBX2   | x8                | TPRD464G3200HC22DC02  |