

Graphics DRAM



For a true simulation of reality. As a top player in the memory arena, Qimonda offers a wide range of high-performance Graphics RAM. Designed to supercharge the performance of our customers' products and drive their business, our leading-edge DRAMs satisfy the appetite of state-of-the-art devices for pixel power. We turn up the bandwidth and drive graphics solutions for desktops, game consoles, notebooks, digital TVs, and set top boxes.

Frame buffer Choose x 32 memory

| | | | |
|--------|------------------------------|--|-------------------------|
| 1 GB | → advanced gaming experience | | |
| 512 MB | → casual gamers | | → modest gaming |
| | → multimedia applications | | → basic multimedia |
| 256 MB | | | → basic multimedia |
| | | | → basic 3D (e.g. 3D-OS) |

Choose x 16 memory

Boost your graphics performance with Qimonda Graphics DRAM!

Recommended Desktop configurations

| | 256 MB | 512 MB | 1 GB |
|---------|--|-------------------|--------------------|
| 64 bit | 4 pcs (32 M x 16) | | |
| 128 bit | 8 pcs (16 M x 16) 4 pcs (16 M x 32) | 8 pcs (32 M x 16) | |
| 256 bit | | 8 pcs (16 M x 32) | 16 pcs (32 M x 16) |
| 512 bit | | | 16 pcs (16 M x 32) |

Recommended Notebook configurations

| | 128 MB | 256 MB | 512 MB |
|---------|--|--|-------------------|
| 64 bit | 4 pcs (16 M x 16) 2 pcs (16 M x 32) | | |
| 128 bit | 4 pcs (8 M x 32) | 8 pcs (16 M x 16) 4 pcs (16 M x 32) | 8 pcs (32 M x 16) |
| 256 bit | | 8 pcs (8 M x 32) | 8 pcs (16 M x 32) |

x 16 gDDR

| Generation | Organization | Package | Power supply | Speed | Sales description | Dash no. | Ordering code | Prod. | Green |
|------------|--------------|---------|--------------|---------|-------------------|----------|---------------|-------|-------|
| 256 Mb | 16 M x 16 | TSOP-66 | 2.5 V | 200 MHz | HYB25D256163CE | -5 | SP000015862 | now | ●● |
| | 16 M x 16 | TSOP-66 | 2.5 V | 250 MHz | HYB25D256163CE | -4 | SP000015542 | now | ●● |
| 512 Mb | 32 M x 16 | TSOP-66 | 2.5 V | 200 MHz | HYB25D512161CE | -5 | SP000200892 | now | ●● |

x 16 gDDR2

| Generation | Organization | Package | Power supply | Speed | Sales description | Dash no. | Ordering code | Prod. | Green |
|------------|--------------|---------|--------------|---------|-------------------|----------|---------------|-------|-------|
| 256 Mb | 16 M x 16 | FBGA-84 | 1.8 V | 350 MHz | HYB18T256161AFL | -28 | SP000082469 | now | ●● |
| | 16 M x 16 | FBGA-84 | 1.8 V | 400 MHz | HYB18T256161AFL | -25 | SP000082468 | now | ●● |
| | 16 M x 16 | FBGA-84 | 2.0 V | 400 MHz | HYB18T256161AF | -25 | SP000016756 | now | ●● |
| | 16 M x 16 | FBGA-84 | 1.8 V | 350 MHz | HYB18T256161BF | -28 | SP000216400 | 4Q06 | ●● |
| | 16 M x 16 | FBGA-84 | 1.8 V | 400 MHz | HYB18T256161BF | -25 | SP000216399 | 4Q06 | ●● |
| | 16 M x 16 | FBGA-84 | 2.0 V | 500 MHz | HYB18T256161BF | -20 | SP000216398 | 4Q06 | ●● |
| 512 Mb | 32 M x 16 | FBGA-84 | 1.8 V | 350 MHz | HYB18T512161BF | -28 | SP000079599 | now | ●● |
| | 32 M x 16 | FBGA-84 | 1.8 V | 400 MHz | HYB18T512161BF | -25 | SP000079598 | now | ●● |
| | 32 M x 16 | FBGA-84 | 2.0 V | 500 MHz | HYB18T512161BF | -20 | SP0000201727 | now | ●● |

x 32 GDDR3

| Generation | Organization | Package | Power supply | Speed | Sales description | Dash no. | Ordering code | Prod. | Green |
|------------|--------------|-------------|--------------|---------|-------------------|----------|---------------|-------|-------|
| 256 Mb | 8 M x 32 | P-TFBGA-136 | 1.8 V | 500 MHz | HYB18H256321AFL | -20 | SP000076919 | now | ●● |
| | 8 M x 32 | P-TFBGA-136 | 1.8 V | 600 MHz | HYB18H256321AFL | -16 | SP000076918 | now | ●● |
| | 8 M x 32 | P-TFBGA-136 | 1.8 V | 700 MHz | HYB18H256321AFL | -14 | SP000214168 | now | ●● |
| | 8 M x 32 | P-TFBGA-136 | 2.0 V | 700 MHz | HYB18H256321AF | -14 | SP000076915 | now | ●● |
| | 8 M x 32 | P-TFBGA-136 | 2.0 V | 800 MHz | HYB18H256321AF | -12 | SP000076914 | 2Q06 | ●● |
| 512 Mb | 16 M x 32 | P-TFBGA-136 | 1.8 V | 500 MHz | HYB18H512321AFL | -20 | SP000068299 | now | ●● |
| | 16 M x 32 | P-TFBGA-136 | 1.8 V | 600 MHz | HYB18H512321AFL | -16 | SP000068298 | now | ●● |
| | 16 M x 32 | P-TFBGA-136 | 1.8 V | 700 MHz | HYB18H512321AFL | -14 | SP000204801 | now | ●● |
| | 16 M x 32 | P-TFBGA-136 | 2.0 V | 700 MHz | HYB18H512321AF | -14 | SP000056184 | now | ●● |
| | 16 M x 32 | P-TFBGA-136 | 2.0 V | 800 MHz | HYB18H512321AF | -12 | SP000056179 | now | ●● |
| | 16 M x 32 | P-TFBGA-136 | 1.8 V | 700 MHz | HYB18H512321BF | -14 | tbd | 4Q06 | ●● |
| | 16 M x 32 | P-TFBGA-136 | 1.8 V | 900 MHz | HYB18H512321BF | -11 | tbd | 4Q06 | ●● |
| | 16 M x 32 | P-TFBGA-136 | tbd | 1 GHz | HYB18H512321BF | -10 | tbd | 4Q06 | ●● |



Please note

The information in this document is subject to change without notice.
The information herein describes certain components and shall not be considered as guarantee of characteristics.