

DRAM Memory Module



DDR DIMM

Double data rate synchronous dynamic random-access memory (DDR SDRAM) is also called DDR1. DDR1 runs at 2.5 or 2.6 Volts which is much power saving than SDRAM.

| Part Number | 96DR-256M333NN-AP2 | 96DR-256M333NN-TR | 96DR-256M400NN-TR | 96DR-512M266E-TR |
|-----------------------|--|--|--|---|
| Product Description | 256M DDR333 184PIN 32MX8 SAMSUNG CHIP | 256M DDR333 184PIN 32MX8 SAMSUNG CHIP | 256M DDR400 184PIN 32MX8 SAMSUNG CHIP | 512M DDR266 184PIN ECC 32MX8 SAMSUNG CHIP |
| Capacity | 256M | 256M | 256M | 512M |
| Frequency | 333Mb/s | 333Mb/s | 400Mb/s | 266Mb/s |
| DRAM Configuration | 32M X 8 | 32M X 8 | 32M X 8 | 32M X 8 |
| Chip Manufacturer | SAMSUNG | SAMSUNG | SAMSUNG | SAMSUNG |
| Rank | 1 RANK | 1 RANK | 1 RANK | 2 RANK |
| Pin Count | 184PIN | 184PIN | 184PIN | 184PIN |
| Advanced Feature | UNBUFFERED | UNBUFFERED | UNBUFFERED | ECC |
| PCB Height | 1.16" | 1.2" | N/A | 1.25" |
| Operating Temperature | 0 - 70C | 0 - 70C | 0 - 70C | 0 - 70C |
| RoHs | YES | YES | YES | YES |

| Part Number | 96DR-512M333NN-AP2 | 96DR-512M333ER-AP | 96DR-512M333NN-TR | 96DR-512M400NN-AP2 |
|-----------------------|---|--|--|--|
| Product Description | 512M DDR333 184PIN 32X8 SAMSUNG CHIP | 512M DDR333 184PIN ECC AND REGISTER 64MX8 SAMSUNG CHIP | 512M DDR333 184PIN 32MX8 SAMSUNG CHIP | 512M DDR400 184PIN 64MX8 SAMSUNG CHIP |
| Capacity | 512M | 512M | 512M | 512M |
| Frequency | 333Mb/s | 333Mb/s | 333Mb/s | 400Mb/s |
| DRAM Configuration | 32M X 8 | 64M X 8 | 32M X 8 | 64M X 8 |
| Chip Manufacturer | SAMSUNG | SAMSUNG | SAMSUNG | SAMSUNG |
| Rank | 2 RANK | 1 RANK | 2 RANK | 1 RANK |
| Pin Count | 184PIN | 184PIN | 184PIN | 184PIN |
| Advanced Feature | UNBUFFERED | REGISTERED | UNBUFFERED | UNBUFFERED |
| PCB Height | 1.16" | 1.2" | 1.25" | 1.16" |
| Operating Temperature | 0 - 70C | 0 - 70C | 0 - 70C | 0 - 70C |
| RoHs | YES | YES | YES | YES |

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|-----------------------|--|--|--|---------------------------------|
| Part Number | 96DR-512M400NN-TR1 | 96DR-1G400NN-TR1 | 96DR-1G333ER-AP1 | 96DR-1G400NN-AP |
| Product Description | 512M DDR400 184PIN 64MX8 SAMSUNG CHIP | 1G DDR400 184PIN 64MX8 SAMSUNG CHIP | 1G DDR333 184PIN REGISTERED 64MX8 SAMSUNG CHIP | 1G DDR400 184PIN 64X8 SAM(G) |
| Capacity | 512M | 1G | 1G | 1G |
| Frequency | 400Mb/s | 400Mb/s | 333Mb/s | 400Mb/s |
| DRAM Configuration | 64M X 8 | 64M X 8 | 64M X 8 | 64M X 8 |
| Chip Manufacturer | SAMSUNG | SAMSUNG | SAMSUNG | SAMSUNG |
| Rank | 1 RANK | 2 RANK | 2 RANK | 2 RANK |
| Pin Count | 184PIN | 184PIN | 184PIN | 184PIN |
| Advanced Feature | UNBUFFERED | UNBUFFERED | REGISTERED | UNBUFFERED |
| PCB Height | 1.16" | 1.25" | 1.2" | 1.16" |
| Operating Temperature | 0 - 70C | 0 - 70C | 0 - 70C | 0 - 70C |
| RoHs | YES | YES | YES | YES |

DDR SO-DIMM

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|-----------------------|---|---|--|--|
| Part Number | 96SD-128M266NN-TR | 96SD-128M333NN-TR | 96SD-256M266NN-TR | 96SD-256M333NN-TR1 |
| Product Description | 128M SO-DDR266 200PIN 16MX16 SAMSUNG CHIP | 128M SO-DDR333 200PIN 16MX16 SAMSUNG CHIP | 256M SO-DDR266 200PIN 32MX8 SAMSUNG CHIP | 256M SO-DDR333 200PIN 32MX8 SAMSUNG CHIP |
| Capacity | 128M | 128M | 256M | 256M |
| Frequency | 266Mb/s | 333Mb/s | 266Mb/s | 333Mb/s |
| DRAM Configuration | 16M X 16 | 16M X 16 | 32M X 8 | 32M X 8 |
| Chip Manufacturer | SAMSUNG | SAMSUNG | SAMSUNG | SAMSUNG |
| Rank | 1 RANK | 1 RANK | 1 RANK | 1 RANK |
| Pin Count | 200PIN | 200PIN | 200PIN | 200PIN |
| Advanced Feature | UNBUFFERED | UNBUFFERED | UNBUFFERED | UNBUFFERED |
| PCB Height | 1.25" | 1.25" | 1.25" | 1.25" |
| Operating Temperature | 0 - 70C | 0 - 70C | 0 - 70C | 0 - 70C |
| RoHs | YES | YES | YES | YES |

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|-----------------------|--|--|--|--|
| Part Number | 96SD-256M400NN-TR | 96SD-512M266NN-TR2 | 96SD-512M400NN-TR | 96SDI-512M400N-IK2 |
| Product Description | 256M SO-DDR400 200PIN 32MX8 SAMSUNG CHIP | 512M SO-DDR266 200PIN 64MX8 SAMSUNG CHIP | 512M SO-DDR400 200PIN 64MX8 SAMSUNG CHIP | 512M SO-DDR400 200PIN 64MX8 I-GRD SAMSUNG CHIP |
| Capacity | 256M | 512M | 512M | 512M |
| Frequency | 400Mb/s | 266Mb/s | 400Mb/s | 400Mb/s |
| DRAM Configuration | 32M X 8 | 64M X 8 | 64M X 8 | 64M X 8 |
| Chip Manufacturer | SAMSUNG | SAMSUNG | SAMSUNG | SAMSUNG |
| Rank | 1 RANK | 1 RANK | 1 RANK | 1 RANK |
| Pin Count | 200PIN | 200PIN | 200PIN | 200PIN |
| Advanced Feature | UNBUFFERED | UNBUFFERED | UNBUFFERED | UNBUFFERED |
| PCB Height | 1.25" | 1.25" | 1.25" | 1.25" |
| Operating Temperature | 0 - 70C | 0 - 70C | 0 - 70C | -40 - 85C |
| RoHs | YES | YES | YES | YES |

| Part Number | 96SD-1G333NN-TR | 96SD-1G333NN-AP | 96SD-1G400NN-TR | 96SD-1G400NN-AP1 |
|-----------------------|---|---|---|--------------------------------------|
| Product Description | 1G SO-DDR333 200PIN 64MX8 SAMSUNG CHIP | 1G SO-DDR333 200PIN 64MX8 SAMSUNG CHIP | 1G SO-DDR400 200PIN 64MX8 SAMSUNG CHIP | 1G SO-DDR400 200PIN 64MX8 SAMSUNG |
| Capacity | 1G | 1G | 1G | 1G |
| Frequency | 333Mb/s | 333Mb/s | 400Mb/s | 400Mb/s |
| DRAM Configuration | 64M X 8 | 64M X 8 | 64M X 8 | 64M X 8 |
| Chip Manufacturer | SAMSUNG | SAMSUNG | SAMSUNG | SAMSUNG |
| Rank | 2 RANK | 2 RANK | 2 RANK | 2 RANK |
| Pin Count | 200PIN | 200PIN | 200PIN | 200PIN |
| Advanced Feature | UNBUFFERED | UNBUFFERED | UNBUFFERED | UNBUFFERED |
| PCB Height | 1.25" | 1.25" | 1.25" | 1.25" |
| Operating Temperature | 0 - 70C | 0 - 70C | 0 - 70C | 0 - 70C |
| RoHs | YES | YES | YES | YES |

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|-----------------------|--|
| Part Number | 96SDI-1G400NN-IK1 |
| Product Description | 1G SO-DDR400 200P 64MX8 I-GRD SAMSUNG CHIP |
| Capacity | 1G |
| Frequency | 400Mb/s |
| DRAM Configuration | 64M X 8 |
| Chip Manufacturer | SAMSUNG |
| Rank | 1 RANK |
| Pin Count | 200PIN |
| Advanced Feature | UNBUFFERED |
| PCB Height | 1.25" |
| Operating Temperature | 0 - 70C |
| RoHs | YES |

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