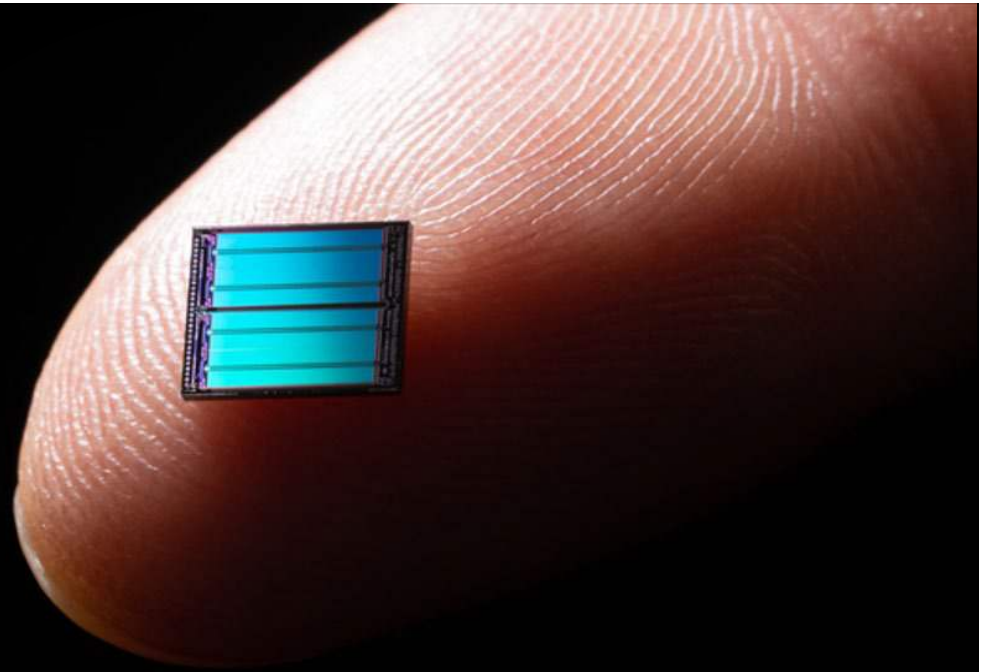




**SMART**semi™



# Memory Components Catalog

May 2023

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## DDR4 SDRAM

| SMARTSEMI PART NUMBER             | TEMP RANGE     | GRADE      | DENSITY | ORGANIZATION | CLOCK   | DATA RATE | VOLTAGE | PACKAGE      | PACKING | MOQ    | INCREMENT | DATA SHEET           | REL. REPORT          |
|-----------------------------------|----------------|------------|---------|--------------|---------|-----------|---------|--------------|---------|--------|-----------|----------------------|----------------------|
| Filter                            | Filter         | Filter     | Filter  | Filter       | Filter  | Filter    | Filter  | Filter       | Filter  | Filter | Filter    | Filter               | Filter               |
| <a href="#">KTDM4G4B626BGCEAT</a> | 0°C to +70°C   | Commercial | 4Gb     | 256Mbx16     | 1333MHz | 2666Mbps  | 1.2V    | 96-ball FBGA | Tray    | 198    | 198       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDM4G4B626BGIEAT</a> | -40°C to +85°C | Industrial | 4Gb     | 256Mbx16     | 1333MHz | 2666Mbps  | 1.2V    | 96-ball FBGA | Tray    | 198    | 198       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDM4G4B826BGCEAT</a> | 0°C to +70°C   | Commercial | 4Gb     | 512Mbx8      | 1333MHz | 2666Mbps  | 1.2V    | 78-ball FBGA | Tray    | 210    | 210       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDM4G4B826BGIEAT</a> | -40°C to +85°C | Industrial | 4Gb     | 512Mbx8      | 1333MHz | 2666Mbps  | 1.2V    | 78-ball FBGA | Tray    | 210    | 210       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDM8G4B632BGCEAT</a> | 0°C to +70°C   | Commercial | 8Gb     | 512Mbx16     | 1333MHz | 3222Mbps  | 1.2V    | 96-ball FBGA | Tray    | 198    | 198       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDM8G4B632BGIEAT</a> | -40°C to +85°C | Industrial | 8Gb     | 512Mbx16     | 1333MHz | 3222Mbps  | 1.2V    | 96-ball FBGA | Tray    | 198    | 198       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDM8G4B832BGCEAT</a> | 0°C to +70°C   | Commercial | 8Gb     | 1Gbx8        | 1333MHz | 3222Mbps  | 1.2V    | 78-ball FBGA | Tray    | 210    | 210       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDM8G4B832BGIEAT</a> | -40°C to +85°C | Industrial | 8Gb     | 1Gbx8        | 1333MHz | 3222Mbps  | 1.2V    | 78-ball FBGA | Tray    | 210    | 210       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDMAG4B632BGCBAT</a> | 0°C to +70°C   | Commercial | 16Gb    | 1Gbx16       | 1600MHz | 3222Mbps  | 1.2V    | 96-ball FBGA | Tray    | 198    | 198       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDMAG4B632BGIBAT</a> | -40°C to +85°C | Industrial | 16Gb    | 1Gbx16       | 1600MHz | 3222Mbps  | 1.2V    | 96-ball FBGA | Tray    | 198    | 198       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDMAG4B832BGCBAT</a> | 0°C to +70°C   | Commercial | 16Gb    | 2Gbx8        | 1600MHz | 3222Mbps  | 1.2V    | 78-ball FBGA | Tray    | 210    | 210       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDMAG4B832BGIBAT</a> | -40°C to +85°C | Industrial | 16Gb    | 2Gbx8        | 1600MHz | 3222Mbps  | 1.2V    | 78-ball FBGA | Tray    | 210    | 210       | <a href="#">Link</a> | <a href="#">Link</a> |

## DDR3(L) SDRAM

| SMARTSEMI PART NUMBER             | TEMP RANGE     | GRADE      | DENSITY | ORGANIZATION | CLOCK  | DATA RATE | VOLTAGE    | PACKAGE      | PACKING | MOQ | INCREMENT | DATA SHEET           | REL. REPORT          |
|-----------------------------------|----------------|------------|---------|--------------|--------|-----------|------------|--------------|---------|-----|-----------|----------------------|----------------------|
| <a href="#">KTDM2G3C618BGCEAT</a> | 0°C to +70°C   | Commercial | 2Gb     | 128Mbx16     | 933MHz | 1866Mbps  | 1.35V/1.5V | 96-ball FBGA | Tray    | 198 | 198       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDM2G3C618BGIEAT</a> | -40°C to +85°C | Industrial | 2Gb     | 128Mbx16     | 933MHz | 1866Mbps  | 1.35V/1.5V | 96-ball FBGA | Tray    | 198 | 198       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDM2G3C818BGCEAT</a> | 0°C to +70°C   | Commercial | 2Gb     | 256Mbx8      | 933MHz | 1866Mbps  | 1.35V/1.5V | 78-ball FBGA | Tray    | 210 | 210       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDM2G3C818BGIEAT</a> | -40°C to +85°C | Industrial | 2Gb     | 256Mbx8      | 933MHz | 1866Mbps  | 1.35V/1.5V | 78-ball FBGA | Tray    | 210 | 210       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDM4G3C618BGCEAT</a> | 0°C to +70°C   | Commercial | 4Gb     | 256Mbx16     | 933MHz | 1866Mbps  | 1.35V/1.5V | 96-ball FBGA | Tray    | 198 | 198       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDM4G3C618BGIEAT</a> | -40°C to +85°C | Industrial | 4Gb     | 256Mbx16     | 933MHz | 1866Mbps  | 1.35V/1.5V | 96-ball FBGA | Tray    | 198 | 198       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDM4G3C818BGCEAT</a> | 0°C to +70°C   | Commercial | 4Gb     | 512Mbx8      | 933MHz | 1866Mbps  | 1.35V/1.5V | 78-ball FBGA | Tray    | 210 | 210       | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTDM4G3C818BGIEAT</a> | -40°C to +85°C | Industrial | 4Gb     | 512Mbx8      | 933MHz | 1866Mbps  | 1.35V/1.5V | 78-ball FBGA | Tray    | 210 | 210       | <a href="#">Link</a> | <a href="#">Link</a> |



## eMMC 5.1 FLASH MEMORY - INDUSTRIAL TEMP

| SMARTSEMI PART NUMBER         | TEMP RANGE     | GRADE      | CAPACITY | PROG. BUS WIDTH | FLASH TYPE | SEQ. READ | SEQ. WRITE | RNDM. READ | RNDM. WRITE | VOLTAGE (NAND/IO) | PACKAGE  | PACKING | MOQ    | INCR.  | DATA SHEET           | REL. REPORT          |
|-------------------------------|----------------|------------|----------|-----------------|------------|-----------|------------|------------|-------------|-------------------|----------|---------|--------|--------|----------------------|----------------------|
| Filter                        | Filter         | Filter     | Filter   | Filter          | Filter     | Filter    | Filter     | Filter     | Filter      | Filter            | Filter   | Filter  | Filter | Filter | Filter               | Filter               |
| <a href="#">KTM4GH1AHI01</a>  | -40°C to +85°C | Industrial | 4GB      | x1/x4/x8        | MLC NAND   | 170MB/s   | 10MB/s     | 5345 IOPS  | 980 IOPS    | 3.3V/1.8V         | 153-FBGA | Tray    | 152    | 152    | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTM8GH2AHI01</a>  | -40°C to +85°C | Industrial | 8GB      | x1/x4/x8        | MLC NAND   | 240MB/s   | 110MB/s    | 3100 IOPS  | 4100 IOPS   | 3.3V/1.8V         | 153-FBGA | Tray    | 152    | 152    | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTM8GL1ASI01</a>  | -40°C to +85°C | Industrial | 8GB      | x1/x4/x8        | MLC NAND   | 240MB/s   | 110MB/s    | 3335 IOPS  | 5630 IOPS   | 3.3V/1.8V         | 153-FBGA | Tray    | 152    | 152    | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTMAGL1ASI01</a>  | -40°C to +85°C | Industrial | 16GB     | x1/x4/x8        | MLC NAND   | 240MB/s   | 110MB/s    | 3335 IOPS  | 5630 IOPS   | 3.3V/1.8V         | 153-FBGA | Tray    | 152    | 152    | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTMAGY1ASI01</a>  | -40°C to +85°C | Industrial | 16GB     | x1/x4/x8        | TLC NAND   | 335MB/s   | 110MB/s    | 4900 IOPS  | 1400 IOPS   | 3.3V/1.8V         | 153-FBGA | Tray    | 152    | 152    | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTMBGY1ASI01</a>  | -40°C to +85°C | Industrial | 32GB     | x1/x4/x8        | TLC NAND   | 335MB/s   | 110MB/s    | 4900 IOPS  | 1400 IOPS   | 3.3V/1.8V         | 153-FBGA | Tray    | 152    | 152    | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTMCGY1ASI01</a>  | -40°C to +85°C | Industrial | 64GB     | x1/x4/x8        | TLC NAND   | 335MB/s   | 110MB/s    | 4900 IOPS  | 1400 IOPS   | 3.3V/1.8V         | 153-FBGA | Tray    | 152    | 152    | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTMDBGY1ASI01</a> | -40°C to +85°C | Industrial | 128GB    | x1/x4/x8        | TLC NAND   | 335MB/s   | 170MB/s    | 4900 IOPS  | 1400 IOPS   | 3.3V/1.8V         | 153-FBGA | Tray    | 152    | 152    | <a href="#">Link</a> | <a href="#">Link</a> |

## eMMC 5.0 FLASH MEMORY - WIDE-TEMP/AUTOMOTIVE Q-100 CLASS 2

| SMARTSEMI PART NUMBER        | TEMP RANGE      | GRADE       | CAPACITY | BUS WIDTH | FLASH TYPE | SEQ. READ | SEQ. WRITE | RNDM. READ | RNDM. WRITE | VOLTAGE (NAND/IO) | PACKAGE  | PACKING | MOQ    | INCR.  | DATA SHEET           | REL. REPORT          |
|------------------------------|-----------------|-------------|----------|-----------|------------|-----------|------------|------------|-------------|-------------------|----------|---------|--------|--------|----------------------|----------------------|
| Filter                       | Filter          | Filter      | Filter   | Filter    | Filter     | Filter    | Filter     | Filter     | Filter      | Filter            | Filter   | Filter  | Filter | Filter | Filter               | Filter               |
| <a href="#">KTM8GP1CWW01</a> | -40°C to +105°C | Wide/Auto 2 | 8GB      | x1        | MLC NAND   | 260MB/s   | 85MB/s     | 5800 IOPS  | 2100 IOPS   | 3.3V/1.8V         | 153-FBGA | Tray    | 152    | 152    | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTMAGP1CWW01</a> | -40°C to +105°C | Wide/Auto 2 | 16GB     | x2        | MLC NAND   | 260MB/s   | 130MB/s    | 6000 IOPS  | 2200 IOPS   | 3.3V/1.8V         | 153-FBGA | Tray    | 152    | 152    | <a href="#">Link</a> | <a href="#">Link</a> |
| <a href="#">KTMBGP1CWW01</a> | -40°C to +105°C | Wide/Auto 2 | 32GB     | x4        | MLC NAND   | 260MB/s   | 130MB/s    | 6000 IOPS  | 2200 IOPS   | 3.3V/1.8V         | 153-FBGA | Tray    | 152    | 152    | <a href="#">Link</a> | <a href="#">Link</a> |