

# ATMEL Memory



This product is RoHS compliant.



## DATAFLASH

Atmel's DataFlash® is the world's number one selling serial interface flash family. Atmel's Dataflash families are feature rich, low pin count, sequential access families ideal for program code, data storage, Serial EEPROM replacement, and the next generation PC Bios Market.

For quantities of 500 and up, call for quote.

| MOUSER STOCK NO.     | Atmel Part No.     | Package | Density | I/O Pins | Interface Type | Page Size  | Vcc         | Price Each |      |      |      |
|----------------------|--------------------|---------|---------|----------|----------------|------------|-------------|------------|------|------|------|
|                      |                    |         |         |          |                |            |             | 1          | 10   | 25   | 100  |
| 556-AT45DB011D-SH-T  | AT45DB011D-SH-T    | SOIC    | 1MB     | 8        | SPI, RapidS    | 264 Bytes  | 2.7V-3.6V   | .86        | .74  | .67  | .58  |
| 556-AT45DB011D-SSH-B | AT45DB011D-SSH-B   | SOIC    | 1MB     | 8        | SPI, RapidS    | 264 Bytes  | 2.7V-3.6V   | .86        | .74  | .67  | .58  |
| 556-AT45DB021D-SH-B  | AT45DB021D-SH-B    | UDFN    | 2MB     | 8        | SPI, RapidS    | 264 Bytes  | 2.7V        | 1.08       | .88  | .84  | .725 |
| 556-AT25DF041A-SH-B  | AT25DF041A-SH-B    | SOIC    | 4MB     | 8        | SPI            | 256 Bytes  | 2.7V-3.6V   | 1.00       | .92  | .843 | .722 |
| 556-AT25DF041A-SSH-B | AT25DF041A-SSH-B   | SOIC    | 4MB     | 8        | SPI            | 256 Bytes  | 2.7V-3.6V   | 1.00       | .92  | .843 | .722 |
| 556-AT45DB041DSU     | AT45DB041D-SU      | SO150   | 4MB     | 8        | SPI, RapidS    | 264 Bytes  | 2.7V-3.6V   | 1.29       | 1.11 | 1.00 | .86  |
| 556-AT45DB041DSSU    | AT45DB041D-SSU     | SOIC    | 4MB     | 8        | SPI, RapidS    | 264 Bytes  | 2.7V-3.6V   | 1.28       | 1.11 | 1.00 | .86  |
| 556-AT45DB041DSSU2.5 | AT45DB041D-SSU-2.5 | SOIC    | 4MB     | 8        | SPI, RapidS    | 264 Bytes  | 2.5V-3.6V   | 1.40       | 1.25 | 1.09 | .93  |
| 556-AT45DB041DSU2.5  | AT45DB041D-SU-2.5  | SOIC    | 4MB     | 8        | SPI, RapidS    | 264 Bytes  | 2.5V-3.6V   | 1.40       | 1.25 | 1.09 | .93  |
| 556-AT26DF081ASU     | AT26DF081A-SU      | SO150   | 8MB     | 8        | SPI            | 256 Bytes  | 2.7V-3.6V   | 1.08       | .966 | .908 | .775 |
| 556-AT26DF081ASSU    | AT26DF081A-SSU     | SOIC    | 8MB     | 8        | SPI            | 256 Bytes  | 2.7V-3.6V   | 1.23       | 1.13 | 1.03 | .95  |
| 556-AT25DF081-SSH-B  | AT25DF081-SSH-B    | SOIC    | 8MB     | 8        | SPI            | 256 Bytes  | 1.65V-1.95V | 1.61       | 1.38 | 1.25 | 1.07 |
| 556-AT45DB081DSSU    | AT45DB081D-SSU     | SOIC    | 8MB     | 8        | SPI, RapidS    | 264 Bytes  | 2.5V, 2.7V  | 1.61       | 1.25 | 1.07 | 1.01 |
| 556-AT45DB081DSU     | AT45DB081D-SU      | SOIC    | 8MB     | 8        | SPI, RapidS    | 264 Bytes  | 2.7V-3.6V   | 1.61       | 1.38 | 1.25 | 1.07 |
| 556-AT45DB081DSSU2.5 | AT45DB081D-SSU-2.5 | SOIC    | 8MB     | 8        | SPI, RapidS    | 264 Bytes  | 2.5V-3.6V   | 1.72       | 1.62 | 1.34 | 1.14 |
| 556-AT45DB081DSU2.5  | AT45DB081D-SU-2.5  | SOIC    | 8MB     | 8        | SPI, RapidS    | 264 Bytes  | 2.5V-3.6V   | 1.72       | 1.62 | 1.34 | 1.14 |
| 556-AT45DB161DSU     | AT45DB161D-SU      | SO150   | 16MB    | 8        | SPI            | 528 Bytes  | 2.7V-3.6V   | 2.26       | 2.10 | 1.75 | 1.50 |
| 556-AT45DB161DSU2.5  | AT45DB161D-SU-2.5  | SOIC    | 16MB    | 8        | SPI            | 528 Bytes  | 2.5V-3.6V   | 2.35       | 2.09 | 1.84 | 1.58 |
| 556-AT25DF321-SU     | AT25DF321-SU       | SOIC    | 32MB    | 8        | SPI            | 256 Bytes  | 2.7V-3.6V   | 2.40       | 2.22 | 2.00 | 1.73 |
| 556-AT45DB321DTU     | AT45DB321D-TU      | TSOP    | 32MB    | 28       | SPI, RapidS    | 528 Bytes  | 2.7V-3.6V   | 4.19       | 3.72 | 3.26 | 3.06 |
| 556-AT45DB321DSU     | AT45DB321D-SU      | SO150   | 32MB    | 8        | SPI, RapidS    | 528 Bytes  | 2.7V-3.6V   | 2.80       | 2.46 | 2.17 | 1.86 |
| 556-AT45DB321D-MWU   | AT45DB321D-MWU     | MODL    | 32MB    | 8        | SPI, RapidS    | 528 Bytes  | 2.7V-3.6V   | 3.98       | 3.42 | 3.09 | 2.65 |
| 556-AT45DB321D-MU    | AT45DB321D-MU      | MLF     | 32MB    | 8        | SPI, RapidS    | 528 Bytes  | 2.7V-3.6V   | 3.98       | 3.65 | 3.32 | 3.09 |
| 556-AT25DF641-MWH-Y  | AT25DF641-MWH-Y    | VDFN    | 64MB    | 8        | SPI            | 256 Bytes  | 2.7V-3.6V   | 4.31       | 3.71 | 3.35 | 3.44 |
| 556-AT25DF641-S3H-B  | AT25DF641-S3H-B    | SOIC    | 64MB    | 8        | SPI            | 256 Bytes  | 2.7V-3.6V   | 3.57       | 3.08 | 2.74 | 3.60 |
| 556-AT45DB642DTU     | AT45DB642D-TU      | TSOP    | 64MB    | 28       | Serial, Rapid8 | 1056 Bytes | 2.7V-3.6V   | 6.13       | 5.68 | 4.76 | 4.08 |
| 556-AT45DB642D-CNU   | AT45DB642D-CNU     | CASON   | 64MB    | 8        | Serial, Rapid8 | 1056 Bytes | 2.7V-3.6V   | 5.81       | 5.18 | 4.51 | 3.86 |

## FLASH MEMORY

Atmel offers parallel Flash memories in a variety of configurations and architectures to address the unique requirements of today's applications. Our first generation AT29 Series devices were developed for applications requiring updates of small portions of data throughout the memory array. The most notable feature of the AT29 Series is the small sector sizes which create an ideal solution for both program code and data storage. The AT29 Series Flash devices feature Atmel's advanced NVM CMOS processing technology, single voltage operation, fast access and erase times as well as low power operation. The AT49 Series devices were developed to meet the stringent NVM requirements for specific applications.

For quantities of 500 and up, call for quote.

| MOUSER STOCK NO.    | Atmel Part No.   | Package | Density | Organization | Speed        | Vcc        | Price Each |      |      |      |
|---------------------|------------------|---------|---------|--------------|--------------|------------|------------|------|------|------|
|                     |                  |         |         |              |              |            | 1          | 10   | 25   | 100  |
| 556-AT49BV322DT70TU | AT49BV322DT-70TU | TSOP    | 32MB    | 2MB x 16     | 70ns         | 2.65V-3.6V | 2.57       | 2.45 | 2.23 | 2.07 |
| 556-AT49BV322D70TU  | AT49BV322D-70TU  | TSOP    | 32MB    | 2MB x 16     | 70ns         | 2.65V-3.6V | 2.48       | 2.37 | 2.26 | 2.07 |
| 556-AT49BV320D70TU  | AT49BV320D-70TU  | TSOP    | 32MB    | 2MB x 16     | 70ns         | 2.65V-3.6V | 2.59       | 2.47 | 2.23 | 2.07 |
| 556-AT49BV642D70TU  | AT49BV642D-70TU  | TSOP    | 64MB    | 4MB x 16     | 70ns         | 2.7V-3.6V  | 4.70       | 3.69 | 3.21 | 3.20 |
| 556-AT29LV51212TU   | AT29LV512-12TU   | TSOP    | 512KB   | 64KB x 8     | 120ns, 150ns | 3.0V-3.6V  | 2.41       | 1.92 | 1.67 | 1.52 |
| 556-AT29C512-90JU   | AT29C512-90JU    | PLCC    | 512KB   | 64KB x 8     | 90ns         | 4.5V-5.5V  | 1.86       | 1.82 | 1.78 | 1.70 |
| 556-AT29C51270JU    | AT29C512-70JU    | PLCC    | 512KB   | 64KB x 8     | 70ns         | 4.5V-5.5V  | 1.93       | 1.80 | 1.67 | 1.45 |
| 556-AT29C010A-90JU  | AT29C010A-90JU   | PLCC    | 1MB     | 128KB x 8    | 90ns         | 4.5V-5.5V  | 1.82       | 1.78 | 1.74 | 1.63 |
| 556-AT29C010A-70JU  | AT29C010A-70JU   | PLCC    | 1MB     | 128KB x 8    | 70ns         | 4.5V-5.5V  | 2.33       | 2.27 | 2.17 | 1.86 |
| 556-AT29C02070JU    | AT29C020-70JU    | PLCC    | 2MB     | 256KB x 8    | 70ns         | 4.5V-5.5V  | 2.79       | 2.72 | 2.66 | 2.47 |
| 556-AT29LV040A15TU  | AT29LV040A-15TU  | TSOP    | 4MB     | 512KB x 8    | 150ns        | 3.0V-3.6V  | 4.94       | 4.46 | 3.99 | 3.48 |
| 556-AT29C040A-90JU  | AT29C040A-90JU   | PLCC    | 4MB     | 512KB x 8    | 90ns         | 4.5V-5.5V  | 4.03       | 3.75 | 3.48 | 3.03 |

## EPROM

Atmel has one of the broadest range of OTP EPROMs in the market. Atmel OTPs are widely used for embedded program code storage in applications such as: cordless phones, pagers, video game players, printers, modems, graphics cards, instrumentation, automotive, medical, telecom, networking, industrial control equipment and hard disk drives.

For quantities of 500 and up, call for quote.

| MOUSER STOCK NO.   | Atmel Part No. | Package | Density | Organization | Speed      | Temperature Range | Vcc       | Price Each |      |      |      |
|--------------------|----------------|---------|---------|--------------|------------|-------------------|-----------|------------|------|------|------|
|                    |                |         |         |              |            |                   |           | 1          | 10   | 25   | 100  |
| 556-AT27C256R70PU  | AT27C256R-70PU | PDIP    | 256KB   | 32KB x 8     | 70ns       | -40°C to 125°C    | 5V        | 2.81       | 2.50 | 2.20 | 2.00 |
| 556-AT27C256R-45PU | AT27C256R-45PU | PDIP    | 256KB   | 32KB x 8     | 45ns, 70ns | -40°C to 85°C     | 4.5V-5.5V | 1.29       | 1.23 | 1.18 | 1.13 |
| 556-AT27C512R-45PU | AT27C512R-45PU | PDIP    | 512KB   | 64KB x 8     | 45ns, 70ns | -40°C to 85°C     | 4.5V-5.5V | 1.45       | 1.39 | 1.33 | 1.27 |
| 556-AT27BV51270JU  | AT27BV512-70JU | PLCC    | 512KB   | 64KB x 8     | 70ns       | -40°C to 85°C     | 2.7V-3.6V | 3.82       | 3.64 | 3.47 | 3.20 |
| 556-AT27C512R70PU  | AT27C512R-70PU | PDIP    | 512KB   | 64KB x 8     | 70ns       | -40°C to 125°C    | 5V        | 3.04       | 2.71 | 2.39 | 2.12 |
| 556-AT27C512R70JU  | AT27C512R-70JU | PLCC    | 512KB   | 64KB x 8     | 70ns       | -40°C to 85°C     | 5V        | 3.04       | 2.71 | 2.39 | 2.12 |
| 556-AT27C102470PU  | AT27C1024-70PU | PDIP    | 1MB     | 64KB x 16    | 70ns       | -40°C to 125°C    | 5V        | 1.78       | 1.74 | 1.70 | 1.62 |
| 556-AT27C01070JU   | AT27C010-70JU  | PLCC    | 1MB     | 128KB x 8    | 70ns       | -40°C to 85°C     | 5V        | 1.49       | 1.45 | 1.42 | 1.36 |
| 556-AT27C010-45PU  | AT27C010-45PU  | PDIP    | 1MB     | 128KB x 8    | 45ns       | -40°C to 125°C    | 5V        | 1.58       | 1.54 | 1.51 | 1.44 |
| 556-AT27C2048-55JU | AT27C2048-55JU | PLCC    | 2MB     | 128KB x 16   | 55ns, 90ns | -40°C to 85°C     | 4.5V-5.5V | 3.65       | 3.48 | 3.32 | 3.17 |
| 556-AT27C4096-90JU | AT27C4096-90JU | PLCC    | 4MB     | 256KB x 16   | 55ns, 90ns | -40°C to 85°C     | 4.5V-5.5V | 3.76       | 3.59 | 3.42 | 3.26 |
| 556-AT27C040-90JU  | AT27C040-90JU  | PLCC    | 4MB     | 512KB x 8    | 70ns, 90ns | -40°C to 85°C     | 4.5V-5.5V | 3.30       | 3.15 | 3.00 | 2.86 |