

# LightFlash™ Family

for Consumer Applications

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*STMicroelectronics*  
*More Intelligent Solutions*



## LightFlash™ Family

The boom of digital consumer applications, combined with the continuous expansion of computer and peripherals market segment, is generating an increasing demand for flexible Flash memories.

ST has taken advantage of its many years experience in Flash memories to develop the new LightFlash™ family. This dynamic group of products is optimized for basic code storage, when fast in-system programming and erasing operations are required and in-field partial code reprogramming is not mandatory. For such applications, chip program and chip erase times are key performances, achieved thanks to a new embedded Multiple Word Program (MWP) algorithm and a dedicated 12V supply voltage for program/erase operations.

LightFlash™ memories address end-equipments like Digital Video Disks (DVDs), printers, Digital Still Cameras (DSCs) and Personal Digital Assistants (PDAs).

ST LightFlash™ memories are manufactured in 0.15μ technology.





## LightFlash™ Family Products and Features

The LightFlash™ family includes standard architecture products with densities reaching 16, 32 and 64Mb. All devices perform the standard flash command set and are compliant with the standard Flash pinout. Reading operations are performed from a 2.7 to 3.6V power supply.

LightFlash™ products are available in standard Flash packages such as SO44, TSOP48, as well as in TFBGA48, in order to support PDAs and DSCs requirements for lightweight and space-saving solutions.

LightFlash™ offer all essential features for basic code storage, required by the digital consumer segment:

- Fast programming and erasing time, allowing 16Mb to be programmed in about 2 sec and erased in 11 sec
- In-system re-programmability and erasability with endurance up to 10,000 program/erase cycles
- Unlimited code modifications
- Easy code update during engineering phase
- Fast code programming during production phase



## LightFlash™ Family Product Table

Part number	Description	Packages
M29KW016E	16Mb (2Mbx8), 90ns, Uniform Block	SO44,TSOP48, TFBGA48
M29KW032E	32Mb (2Mbx16), 90ns, Uniform Block	TSOP48, TFBGA48
M29KW064E	64Mb (2Mbx32), 90ns, Uniform Block	TSOP48, TFBGA48

# Sales Offices

## AMERICAS

### BRAZIL

**05413 São Paulo**  
R. Henrique Schaumann 286-CJ33  
Tel. +55 11 883 5455  
Fax +55 11 282 2367

### 69050-002 Manaus/AM

Costantino Nery Street, 2789  
80 Stair - 806 Room (Chapada)  
Tel. +55 92 657 0017  
Fax +55 92 657 0157

### CANADA

**Nepean Ontario K2H 8R6**  
16 Fitzgerald Rd, Suite 300  
Tel. +1 613 768 9000  
Fax +1 613 768 9001

### Mississauga

**Ontario L4V 1R9**  
5945 Airport Rd., Suite 362  
Tel. +1 905 678 9800  
Fax +1 905 678 1799

### MEXICO

**01070 Mexico City**  
Col. Chimalistac, San Angel  
Insurgentes Sur 2376 604  
Tel. +52 5 616 4081  
Fax +52 5 616 4872

### 44550 Guadalajara

2347 Av. Mariano Otero  
Piso 5, of. "B" - Col. Verde Valle  
Tel. +52 3 647 6081  
Fax +52 3 647 5231

### 66220 Monterrey

Avenida Lazaro Cardenas #2400  
Edificio LOSOLES A 6-1/2  
San Pedro Garza Garcia, N.L.  
Tel. +52 8 3630134  
Fax +52 8 3634889

## U.S.A.

### NORTH & SOUTH AMERICAN MARKETING HEADQUARTERS Lexington Corporate Center

10 Maguire Road  
Building 1, Third Floor  
LEXINGTON, MA 02421  
Tel. +1 781 861 2650  
Fax +1 781 861 2664

### ALABAMA

**Huntsville**  
Tel. +1 256 837 3754  
Fax +1 256 937 8246

### ARIZONA

**Phoenix**  
Tel. +1 602 485 6100  
Fax +1 602 485 6102

### CALIFORNIA

**Agoura Hills**  
Tel. +1 818 865 6850  
Fax +1 818 865 6861

### Laguna Niguel

Tel. +1 949 347 0717  
Fax +1 949 347 1224

### La Jolla

Tel: +1 858 452 6608  
Fax: +1 858 452 0401

### San Jose

Tel. +1 408 452 8585  
Fax +1 408 452 1549

### COLORADO

**Longmont**  
Tel. +1 303 772 9729  
Fax +1 303 381 3680

### CONNECTICUT

**Woodstock**  
Tel. +1 860 928 7700  
Fax +1 860 928 2722

### FLORIDA

**Boca Raton**  
Tel. +1 561 997 7233  
Fax +1 561 997 7554

### IDAHO

**Boise**  
Tel. +1 208 376 9151  
Fax +1 208 376 9109

### ILLINOIS

**Schaumburg**  
Tel. +1 847 585 3000  
Fax +1 847 517 1899

### INDIANA

**Kokomo**  
Tel. +1 765 455 3500  
Fax +1 765 455 3400

### Indianapolis

Tel. +1 317 575 5520  
Fax +1 317 575 8271

### MICHIGAN

**Livonia**  
Tel. +1 734 953 1700  
Fax +1 734 462 4071

### MINNESOTA

**Edina**  
Tel. +1 612 835 3500  
Fax +1 612 835 3555

### MISSOURI

**Kansas City**  
Tel. +1 816 468 6868  
Fax +1 816 468 6561

### NEW JERSEY

**Basking Ridge**  
Tel. +1 908 766 7401  
Fax +1 908 766 7738

### Voorhees

Tel. +1 609 772 6222  
Fax +1 609 772 6037

### NEW YORK

**Manhattan**  
Tel. +1 212 850 5650

## NORTH CAROLINA

**Cary**  
Tel. +1 919 469 1311  
Fax +1 919 469 4515

## OREGON

**Beaverton**  
Tel. +1 503 690 8604

## Corvallis

Tel. +1 541 754 8192  
Fax +1 541 754 8262

## Portland

Tel. +1 503 282 4941  
Fax +1 503 282 4963

## PENNSYLVANIA

**Bensalem**  
Tel. +1 215 638 2958  
Fax +1 215 638 2986

## TEXAS

**Carrollton**  
Tel. +1 972 466 6000  
Fax +1 972 466 8130

## Houston

Tel. +1 281 376 9939  
Fax +1 281 376 9948

## UTAH

**Midvale**  
Tel. +1 801 256 3571  
Fax +1 801 256 3578

## ASIA/PACIFIC

### AUSTRALIA

**Sydney**  
Suite 3, level 7 Otis House  
43 Bridge Street  
N.S.W. 2220 Hurstville  
Tel. +61 2 9580 3811  
Fax +61 2 9580 6440

### Melbourne

Suite 305, Level 3  
3 Chester Street  
Oakleigh Vic 3106  
Tel. +61 3 9568 1222  
Fax +61 3 9568 1999

### CHINA

**Beijing 100080**  
East Unit, 1/F, SIGMA Building,  
No. 49 Zhichun Road,  
Haidian District  
Tel: +86 10 8809 7398  
Fax: +86 10 8809 7171

### Shanghai 200021

Unit 1801, 18/F  
Shui On Plaza  
333 Huai Hai Zhong Road  
Tel. +86 21 5306 0898  
Fax +86 21 5306 0890

### Shenzhen P.R.China 518038

co1# 101-110 Honghua Road  
International Commerce Centre  
Futian Free Trade Zone  
Tel: +86 755 359 0950  
Fax: +86 755 359 1170

## Hong Kong

Special Administrative Region  
Tsim Sha Tsui, Kowloon  
16/F, Tower I, The Gateway I  
25 Canton Road  
Tel. +85 2 2861 5700  
Fax +85 2 2861 5044

## INDIA (Liaison Offices)

**Bangalore 560052**  
Diners Business Service  
26 Cunningham Road  
Tel. +91 80 226 7272  
Fax +91 80 225 1133

## Noida 201301 (UP)

Plot N. 2 & 3, Sector 16A  
Institutional Area  
Distt. Ghaziabad UP  
Tel. +91 11 8 4515262  
Fax +91 11 8 4515304

## KOREA

**Seoul**  
19th Fl Kang Nam Building,  
1321-1 Seocho-dong, Seocho - ku  
Tel. +82 2 3489 0114  
Fax +82 2 588 9030

## Taegu 701-023

18th Floor Youngnam Tower  
111 Shinchun-3 Dong  
Dong-Ku  
Tel. +82 53 756 9583  
Fax +82 53 756 4463

## MALAYSIA

**Kuala Lumpur**  
Suite 5-01A, Block B,  
5th Floor, Menara Amcorp  
Amcorp Trade Centre No.18 Jalan  
Persiaran Barat 46050 Petaling  
Jaya Selangor Darul Ehsan  
Tel. +603-7958 1189  
Fax. +603-7958 1179

## Penang 11900

Unit 13A, Lower Level 5  
Hotel Equatorial  
1 Jalan Bukit Jambul  
Tel. +60 4 642 8291  
Fax: +60 4 642 8284

## SINGAPORE

**Singapore 569508**  
28 Ang Mo Kio - Industrial Park 2  
Tel. +65 6482 1411  
Fax +65 6481 5124

## TAIWAN

**Taipei 106**  
#20th Floor, #207  
Tun Hua South Road  
Section 2  
Tel. +88 6 2 2378 8088  
Fax +88 6 2 2378 9188

## THAILAND

**Bangkok 10110**  
Unit #1315  
54 Asoke Road  
Sukhumvit 21  
Tel. +66 2 260 7870  
Fax +66 2 260 7871

## EUROPE

### CZECH REPUBLIC

**Praha 8**  
Pobrezni 3 186 00  
Tel. +42 02 24835261/2

### FINLAND

**FIN-08100 LOHJA**  
Laurinkatu 48A  
Tel. +358 19 3282 1  
Fax +358 19 3155 66

### FRANCE

**F-75669 Paris Cedex 14**  
29, bd Romain Rolland  
Tel. +33 1 58 07 75 75  
Fax +33 1 55 48 95 69

### F-67000 Strasbourg

20, Place des Halles  
Tel. +33 3 88755066  
Fax +33 3 88222932

### GERMANY

**D-85630 Grasbrunn**  
Werner-von-Siemens  
Ring 3-5  
Tel. +49 89 460060  
Fax +49 89 4605454

### D-90449 Nürnberg

Südwestpark 92  
Tel. +49 911 670408 0  
Fax +49 911 670408 99

### D-70499 Stuttgart 31

Mittlerer Pfad 2-4  
Tel. +49 711 13968 0  
Fax +49 711 8661427

### HUNGARY

**1139 Budapest**  
(Representative Offices)  
Vaci UT 99  
Tel. +36 1 350 5280  
Fax +36 1 3505281

### ITALY

**I-20090 Assago (MI)**  
V.le Milanofiori - Strada 4  
Palazzo E/5  
Tel. +39 02 57546 1  
Fax +39 02 8250449

### I-40033 Casalecchio di Reno (BO)

Via R. Fucini, 12  
Tel. +39 051 6113411  
Fax +39 051 591305

### I-00161 Roma

Via A. Torlonia, 15  
Tel. +39 06 44251142  
Fax +39 06 85354438

### MOROCCO (and North Africa)

**20180 Casablanca**  
RP 3013 - Km 17 Bouskoura  
BP 97  
Tel. +212 22 93 60 02  
Fax +212 22 93 60 55

## NETHERLANDS

**5503 LL Veldhoven**  
De Run 4222  
Tel. +31 40 2509600  
Fax +31 40 2528835

## POLAND

**PL-00-513 Warszawa**  
Oddział w Warszawie ul.  
Nowogrodzka 11  
Tel. + 48 22 529 0 529  
Fax + 48 22 529 0 520

## SPAIN

**F-08004 Barcelona**  
Calle Gran Via Cortes Catalanas,  
322 6th Floor, 2nd Door  
Tel. +34 93 4251800  
Fax +34 93 4253674

## E-28027 Madrid

Calle Albacete, 5  
Tel. +34 91 4051615  
Fax +34 91 4031134

## SWEDEN

**SE-16425 Kista**  
Borgarfjordsgatan, 13 - Box 1094  
Tel. +46 8 58774400  
Fax +46 8 58774411

## SWITZERLAND

**CH-1215 Geneva 15**  
Worldwide Headquarters  
Route de Pré-Bois, 20  
Tel. +41 22 9292929  
Fax +41 22 9292900

## TURKEY

**34630 Istanbul**  
Istanbul Dunya Ticaret Merkezi  
A2 Blok Kat 12 No: 376  
Tel. +90 212 465 61 92  
Fax +90 212 465 61 96

## 35030 Bornova Izmir

295 SK. No:1 K:8 D:6  
Tel. +90 232 4860351  
Fax +90 232 4860528

## UNITED KINGDOM

**Marlow, Bucks, SL71Y**  
Planar House, Parkway  
Globe Park  
Tel. +44 1628 890800  
Fax +44 1628 890391

## JAPAN

### Tokyo 108-6010

Shinagawa INTERCITY Tower A  
2-15-1, Konan, Minato-Ku  
Tel. +81 3 5783 8200  
Fax +81 3 5783 8216

### Osaka 532-0003

14F Shin-Osaka Second  
Mori Bldg.  
3-5-36 Miyahara Yodogawa-Ku  
Tel. +81 6 6397 4130  
Fax +81 6 6397 4131



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