

Macronix
Process Change Notification (PCN)

MX25L1605D
(3V, 16Mb, Serial Flash)

Date Issued : May, 2008

Issued by : PM/ Memory SBU

S/N:F-PCN-22

MXIC Proprietary & Confidential



MACRONIX
INTERNATIONAL CO., LTD.

Dear Macronix Customer,

Macronix is introducing the 3rd generation of 16Mb serial flash product. Macronix has shrunk the die size from 0.15um to 0.13um in order to continue to offer our customers the most advanced and cost effective products.

In order to achieve better performance, reliability, and cost structure, Macronix is introducing the “D” revision of 16Mb serial flash products on our advanced 0.13um technology.

Product is available in samples and mass production now.

The MX25L1605D device is identical in form, fit and function to the previous generation MX25L1605A product. Additional functions added in this version are - dual I/O read, secured 512-bit OTP and multiple write protection.

Macronix requests that you kindly qualify the new version as quickly as possible in order for us to continue supporting you without interruption.

Thank you

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INTERNATIONAL CO., LTD.**

Feature Comparison Table

Part No.	MX25L1605A	MX25L1605D
Process	0.15um FG	0.13um FG
VCC range	2.7V ~ 3.6V	2.7V ~ 3.6V
Read Speed	33MHz (READ) 85MHz (FAST_READ)	33MHz (READ) 86MHz (FAST_READ) 50MHz (x2 I/O, FAST_READ)
Icc Standby	20uA (max.)	20uA (max.)
Active Read Current	12mA (max, @85MHz)	25mA (max, @86MHz)
Active Write Current (Erase/Program)	15mA (max.)	20mA (max.)
Chip Erase Time	14sec (typ.) / 30sec (max.)	14sec (typ.) / 30sec (max.)
Block Erase Time (64KB)	1sec (typ.) / 2sec (max.)	0.7sec (typ.) / 2sec (max.)
Sector Erase Time (4KB)	60ms (typ.) / 120ms (max.)	90ms (typ.) / 300ms (max.)
Package Type	8-SOP (200mil) 16-SOP (300mil) 8-SON (8x6mm)	8-SOP (150mil/200mil) 16-SOP (300mil) 8-PDIP (300mil) 8-WSON (6x5mm)
Additional Functions	MX25L1605A	MX25L1605D
Dual I/O read@50MHz	Not Available	Available
Secured 512-bit OTP	Not Available	Available
Mutiple write protection	N/A, only standard write protection	Available

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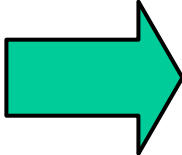
Part Numbering Change

MX25L1605A

8-SOP (209mil)	
MX25L1605AM2C-12G	MX25L1605AM2I-12G
MX25L1605AM2C-15G	MX25L1605AM2I-15G

16-SOP (300mil)	
MX25L1605AMC-12G	MX25L1605AMI-12G
MX25L1605AMC-15G	MX25L1605AMI-15G

8-SON (8x6mm)	
MX25L1605AZMC-12G	MX25L1605AZMI-12G
MX25L1605AZMC-15G	MX25L1605AZMI-15G



MX25L1605D

8-SOP (209mil)	
MX25L1605DM2I-12G	

16-SOP (300mil)	
MX25L1605DMI-12G	

8-WSON (6x5mm)	
MX25L1605DZNI-12G	

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Conversion Schedule

➤ “D” version samples available:	Now
➤ “D” version mass production :	1 st of Jan. 2008
➤ Old version last order placement date:	31 st of Dec. 2008
➤ Old version final shipment date:	31 st of Mar. 2009

Macronix Recommendations:

- Macronix requests that you qualify the new D version samples now. This will allow Macronix to continue supporting you without interruption
- Datasheets are available on our website (www.macronix.com)