



MACRONIX
INTERNATIONAL Co., LTD.

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Process Change Notification

Subject: Product Migration

Macronix is introducing the "E" revision, the next generation of 8Mb/16Mb serial flash products on our existing 0.11um technology.

In Single I/O mode, the MX25L8006E and MX25L1606E are identical in forms and functions with the MX25L8005 and MX25L1605D. The MX25L8006E and MX25L1606E are also capable of Single Input / Dual Output mode. However, the MX25L1606E no longer supports Dual Input / Dual Output and Continuously Program (CP) Mode. Please see table on page 2 for additional feature comparisons.

MX25L8005 and/or MX25L1605D need to migrate to the MX25L8006E and/or MX25L1606E. New design should only adopt the new products. Migrating to these new products will enable Macronix to provide continuous support to our customers.

Products affected by this change:

EPN	Milestones
MX25L8005	Last Order Date: November 30, 2010 Last Ship Date: February 28, 2011
MX25L1605D	Last Order Date: November 30, 2010 Last Ship Date: February 28, 2011

Please contact your Macronix sales for more information.

General Feature Comparison:

Part No.	MX25L8005	MX25L8006E	MX25L1605D	MX25L1606E
Voltage	2.7V~3.6V	2.7V ~3.6V	2.7V ~3.6V	2.7V ~3.6V
Interface	1-in / 1-out *	1-in / 2-out *	2-in / 2-out *	1-in / 2-out *
Package	8-SOP (150mil/209mil) 8-WSON(6x5mm) 8-USON(4x4mm) 8-PDIP(300mil)	8-SOP (150mil/209mil) 8-WSON(6x5mm) 8-USON(4x4mm) 8-PDIP(300mil)	8-SOP (150mil/209mil) 8-WSON(6x5mm) 8-USON(4x4mm) 8-PDIP(300mil)	8-SOP (150mil/209mil) 8-WSON(6x5mm) 8-USON(4x4mm) 8-PDIP(300mil)
Operation Temperature	-40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C
Sector Structure	4KB	4KB	4KB	4KB
Clock Rate	86MHz	86MHz	86MHz	86MHz
Byte Program	No	Yes	Yes	Yes
CP (Continuously Program) Mode	No	No	Yes	No
ACC Mode	No	No	Yes	No
DMC Mode	No	Yes	No	Yes
OTP	No	512 bit	512 bit	512 bit
Security Register	No	Yes	Yes	Yes
Endurance (typ.)	100k	100k	100k	100k
Data Retention	20y	20y	20y	20y

* **Note:** Please refer to our application notes for more details of feature differences.
File: AN055-Migrate_to_MX25L1606E_and_MX25L8006E-1.1.pdf on our website.

Products Affected:

• 8Mb

EPN	Package	EPN	Package
MX25L8005M2C-15G	209MIL 8-SOP	MX25L8006EM2I-12G	209MIL 8-SOP
MX25L8005M2I-12G	209MIL 8-SOP	MX25L8006EM2I-12G	209MIL 8-SOP
MX25L8005M2I-15G	209MIL 8-SOP	MX25L8006EM2I-12G	209MIL 8-SOP
MX25L8005MC-15G	150MIL 8-SOP	MX25L8006EM1I-12G	150MIL 8-SOP
MX25L8005MI-12G	150MIL 8-SOP	MX25L8006EM1I-12G	150MIL 8-SOP
MX25L8005MI-15G	150MIL 8-SOP	MX25L8006EM1I-12G	150MIL 8-SOP
MX25L8005PC-15G	300MIL 8-PDIP	MX25L8006EPI-12G	300MIL 8-PDIP
MX25L8005PI-15G	300MIL 8-PDIP	MX25L8006EPI-12G	300MIL 8-PDIP
MX25L8005ZNI-12G	6X5X0.8XP1.27MM	MX25L8006EZNI-12G	6X5X0.8XP1.27MM
MX25L8005ZUI-12G	4X4X0.6XP0.8MM	MX25L8006EZUI-12G	4X4X0.6XP0.8MM

• 16Mb

EPN	Package	EPN	Package
MX25L1605DM1I-12G	150MIL 8-SOP	MX25L1606EM1I-12G	150MIL 8-SOP
MX25L1605DM2I-12G	209MIL 8-SOP	MX25L1606EM2I-12G	209MIL 8-SOP
MX25L1605DMI-12G	300MIL 16-SOP	MX25L1606EMI-12G	300MIL 16-SOP
MX25L1605DPI-12G	300MIL 8-PDIP	MX25L1606EPI-12G	300MIL 8-PDIP
MX25L1605DZNI-12G	6X5X0.8XP1.27MM	MX25L1606EZNI-12G	6X5X0.8XP1.27MM
MX25L1605DZUI-12G	4X4X0.6XP0.8MM	MX25L1606EZUI-12G	4X4X0.6XP0.8MM
KH25L1605DM2C-12G	209MIL 8-SOP	KH25L1606EM2C-12G	209MIL 8-SOP

Production Schedule:

▶ Sample Availability	January, 2010
▶ Mass Production	March, 2010

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