



MACRONIX  
INTERNATIONAL Co., LTD.

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## Product 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.

The MX25L8006E/MX25L1606E devices are identical in forms, fit and functions comparing to the previous generation MX25L8005/MX25L1605D products.

New versions are highly recommended for your design with our continuous and seamless support.

**Products affected by this change:**

- MX25L8005 Series
- MX25L1605D Series

Please contact your Macronix sales for more information.

## General Feature Comparison:

Part No.	MX25L8005	MX25L8006E	MX25L1605D	MX25L1606E
<b>Voltage</b>	2.7V~3.6V	2.7V ~3.6V	2.7V ~3.6V	2.7V ~3.6V
<b>Interface</b>	1-in / 1-out	1-in / 2-out	2-in / 2-out	1-in / 2-out
<b>Package</b>	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)
<b>Operation Temperature</b>	-40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C
<b>Sector Structure</b>	4KB	4KB	4KB	4KB
<b>Block Structure</b>	64KB	64KB	64KB	64KB
<b>Clock Rate</b>	86MHz	86MHz	86MHz	86MHz
<b>Byte Program</b>	No	Yes	Yes	Yes
<b>CP (Continuously Program) Mode</b>	No	No	Yes	No
<b>ACC Mode</b>	No	No	Yes	No
<b>DMC Mode</b>	No	Yes	No	Yes
<b>OTP</b>	No	512 bit	512 bit	512 bit
<b>Security Register</b>	No	Yes	Yes	Yes
<b>Endurance (typ.)</b>	100k	100k	100k	100k
<b>Data Retention</b>	20y	20y	20y	20y

## 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:

▶ <b>Sample Availability</b>	January, 2010
▶ <b>Mass Production</b>	March, 2010

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