

Introduction to *ESMT*  
*Known Good Die*

1Q of Y2006

# Why Choose ESMT as Partner of MCP / MCM / SiP

- ESMT's KGD(Known Good Die) Can meet top level (level1) requirement as definition of EIAJ EDR-4703 : Make KGD reach the same quality/reliability level as packaged products should be.
- Level 1: KGD (Known Good Dice)
- Level 2 : KTD (Known Tested Die)
- Level 3 : PD (Probed Die)

# KGD Definition in EIAJ EDR-4703

EIAJ EDR-4703 : Bare die quality level classification			
LEVEL	Level 1	Level 2	Level 3
	KGD	KTD	PD
Visual mechanical	V	V	V
Electric characteristics	V	V	not assured after mounting
Early failures	V	not assured	not assured
Long-term reliability	V	not assured	not assured

# Why Choose ESMT as Partner of MCP / MCM / SiP

- Well-experienced KGD business relationship with alliances.
- Excellent power consumption makes your MCP solution much powerful in handset/portable solution. ESMT Mobile SDRAM series product perform 88% off power consumption against normal SDRAM.

# Well Experience in KGD for MCP/SiP of Diverse Applications

- DSC
- Digital TV
- LCD Controller
- MP3
- Mobile phone
- Optical Storage
- Portable Multimedia Player

# ESMT KGD Ordering Information

## - List of Available part

- **1Mx16 SDRAM (1.8V~3.3V) :**  
M12L16161A / M12S16161A / M12D16161A
- **4Mx16 SDRAM (1.8V~3.3V) :**  
M12L64164A / M12S64164A / M12D64164A
- **2Mx32 SDRAM (1.8V~3.3V) :**  
M12L64322A / M12S64322A / M12D64322A
- **4Mx32 SDRAM (2.5V~3.3V) :**  
M12L128324A / M12S128324A
- **4Mx32 DDR SDRAM (2.5V) :**  
M13S128324A

# Logistic Control of ESMT KGD

- Stable supply and reasonable delivery schedule(lead-time) reduce risk on your production control.
- ESMT supports logistic control for your MCP assembly both in data flow and material flow.

# Further Information Requirement on ESMT's KGD

Welcome to contact us for further information you need such as wafer testing flow, power consumption and quality/reliability control flow.

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die support for your Multi-chip package*

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