



## Product Change Notification

**Date:** February 5, 2024

**Change Notification No.** IS45S-512Mb-Sync-DRAM-12M

**To:** Valued Customers

**From:** ISSI (Integrated Silicon Solution, Inc.)  
1623 Buckeye Dr  
Milpitas, CA. 95035  
USA

**Affected ISSI Part Numbers:** IS45S16320D, IS45S86400D, IS45S32160D

**Replacement ISSI Part Numbers:** IS45S16320F, IS45S86400F, IS45S32160F

Affected Part Numbers	Recommended Replacement Part Numbers
IS45S16320D-6CTLA1	IS45S16320F-6CTLA1
IS45S16320D-6CTLA1-TR	IS45S16320F-6CTLA1-TR
IS45S16320D-7BLA1	IS45S16320F-7BLA1
IS45S16320D-7BLA1-TR	IS45S16320F-7BLA1-TR
IS45S16320D-7CTLA1	IS45S16320F-7CTLA1
IS45S16320D-7CTLA1-TR	IS45S16320F-7CTLA1-TR
IS45S16320D-7TLA1	IS45S16320F-7TLA1
IS45S16320D-7TLA1-TR	IS45S16320F-7TLA1-TR
IS45S16320D-7TLA2	IS45S16320F-7TLA2
IS45S16320D-7TLA2-TR	IS45S16320F-7TLA2-TR

**Notes:**

1. The recommended replacement part endings may be an upgrade speed option. However, all speed options are specified to be fully backward compatible with slower speed options.
2. The affected part number list above shows the most popular examples. All part numbers beginning with IS45S16320D, IS45S86400D, and IS45S32160D are affected. Please contact ISSI if you have any question.

*(continued on next page)*

**Product Change Notification** *(continued)*

**Description of Change:** The 512Mb 3.3V Sync DRAM beginning with IS45S16320D, IS45S86400D, and IS45S32160D are being replaced with parts with a more advanced process technology. The recommended replacement part was designed with the same form, fit and function as the original part. The wafer fab remains Powerchip, and the process technology changes from 72nm to 63nm.

**Rationale for Change:**

Powerchip is de-emphasizing the process technology for the affected part numbers. The process technology for the replacement part numbers will enable longevity and improved availability for the 512M 3.3V SDRAM.

**Schedule:**

<b>New Part Status:</b>	Mass production; Samples available
<b>Change Validation Test Data:</b>	Available
<b>Affected part Last-Time-Buy Date (LTB):</b>	February 9, 2025
<b>Affected part Last-Time-Shipdate (LTS):</b>	February 9, 2026

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