

Migrating from CH7017 to CH7018

1. Scope

The purpose of this technical bulletin is to inform customers how to migrate from an existing CH7017 design to the CH7018. The CH7018 is the non-Macrovision version of the CH7017. Both devices are capable of driving LVDS and TV outputs. The only feature set difference is the CH7017 supports Macrovision anti-copy protection and the CH7018 does not.

2. Migrating from CH7017 to CH7018

The CH7018 is pin to pin compatible to the CH7017 and requires no schematic or hardware changes when migrating from an existing CH7017 design to a CH7018 design. VBIOS and Driver support for Intel DVO chipsets is currently available for the CH7018. The following sections show the recommended VBIOS and Driver versions for each of the supported Intel DVO chipsets. For non-Intel platforms please refer to Section 2.3 and the CH7017/CH7018 Programming guide for details.

2.1 Intel Desktop Platform

The Intel Graphics Media Accelerator Driver / Intel Extreme Driver supports the CH7018 device. The driver can be downloaded from the Intel website at www.intel.com or requested through an Intel representative.

The production software in the following table are the suggested VBIOS and driver versions for the Intel 845, 855, and 865 Families.

	Intel 845 Family	Intel 855 Family	Intel 865 Family
VBIOS Version	3394	1270	1236
Driver Version	14.9 14.10	14.17 14.18 14.19	14.17 14.18 14.19

Please also obtain the “ch7017_TV_xxxx.flx” and “ch7017_LFP_xxxx.flx” files included in the Intel VBIOS releases from Intel. These *.flx files are compatible with the CH7018 device. The “xxxx” in the filename represents the VBIOS version number.

2.2 Intel Embedded Platform

The Intel Embedded Graphics Driver (IEGD) supports the CH7018 device. The IEGD driver for Intel 845 embedded and Intel 855 embedded applications can be downloaded from the Intel website at www.intel.com or requested through an Intel representative.

	Intel 845 Family	Intel 855 Family
Production VBIOS and Driver Version	5.0 or later*	5.0 or later*

*IEGD 5.0 does not support up-scaler functionality.

IEGD 5.1 or later should support up-scaler functionality. Please contact Intel for IEGD 5.1 or later released dates.

2.3 Non-Intel Platform

For non-Intel applications, reprogramming of registers 4Bh and 15h may be required when converting from CH7017 to CH7018.

The Device ID, Register 4Bh, can be used to differentiate between the CH7017 and the CH7018. The Device ID for the CH7018 is 1Ah and the Device ID for the CH7017 is 1Bh.

For the CH7018, the TV output will be powered down unless Register 15h is set to 00h. For the CH7017, Register 15h must not be overwritten. If TV out is not used, then Register 15h can be ignored.

The Device ID can be used to make the driver compatible for both the CH7017 and the CH7018.

3. Revision History

Revision	Date	Section	Description
1.0	5/12/06	All	First Revision

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