

## SD BOOT SUPPORT FOR ATOM

### Supported Cards

(micro, mini) SD  
 (micro, mini) SDHC  
 MMC (plus, mobile, micro)  
 MMC HC (plus, mobile, micro)

### Supported Onboard

e-MMC  
 embedded SD

### Supported Host controllers

Standard SDIO Host Controller  
 Intel Poulso SCH US15 series

### Supported options

Integrated in Phoenix BIOS  
 Integrated in AWARD BIOS  
 Option ROM (with BBS and Legacy)

### Supported OS

Linux  
 QNX  
 DOS  
 Windows CE  
 Windows XP embedded  
 (contact Eltan for details)  
 Windows Embedded Standard  
 (contact Eltan for details)

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- BIOS support to add SD Card, MMC cards and e-MMC devices as boot device.
- Available for integration into the Phoenix Technologies and Award BIOS Code bases and Option ROM.
- No additional hardware required with Intel US15 series SCH
- Space and cost saving, no additional components and low cost for storage.
- High speed and high capacity supported

Eltan created the BIOS support to add SD Card, MMC cards and e-MMC devices as boot device. Modules are available for integration into the Phoenix Technologies and Award BIOS Code bases. The support is also available as a standard Option ROM.

SD, SDHC and MMC Cards and e-MMC devices are very small, low cost and high capacity. They can now be used as boot- and mass storage device when directly connected to an industry standard SDIO host adapter. The host adapter is integrated in the Intel(R) System Controller Hub (SCH) US15W so no additional hardware is required to support these devices.

The BOOT process in an x86 system consists of hardware power-up, BIOS system configuration and the Operating System start-up.

To fully exploit the product, the hardware needs to have an integrated SDIO support and the Operating system needs to be able to BOOT from SD Cards.

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