



A new Generation of **Video** Control Boards

Firefly X10 - Release Notes

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HEBER LTD

Belvedere Mill
Chalford
Stroud
Gloucestershire
GL6 8NT
England

Tel: +44 (0) 1453 886000
Fax: +44 (0) 1453 885013
Email: support@heber.co.uk
<http://www.heber.co.uk>

CONTENTS

1	ISSUE 21 OF THE WINDOWS X10 DRIVERS AND ISSUE 9 OF THE LINUX X10 DRIVERS (10/08/2004)	1
2	ISSUE 24 OF THE WINDOWS DRIVERS AND ISSUE 11 OF THE LINUX DRIVERS (29/11/2004)	1
3	ISSUE 25 OF THE WINDOWS DRIVERS AND ISSUE 12 OF THE LINUX DRIVERS (22/02/2005)	1

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1 ISSUE 21 OF THE WINDOWS X10 DRIVERS AND ISSUE 9 OF THE LINUX X10 DRIVERS (10/08/2004)

This covers new features in Issue 21 of the Windows X10 drivers and Issue 9 of the Linux X10 drivers:

- Linux support for 2.4 and 2.6 kernels.
- The ability to multiplex up to 96 inputs.
- Many code optimisations to improve X10 performance.
- Many optimisations to cctalk operation.
- Additional checking to ensure that corrupted cctalk messages are discarded correctly.
- Fixed a bug whereby it was possible for the X10 to hang indefinitely. This was due to the X10 incorrectly handling the *Get Descriptor* USB request from the PC operating system.
- Fixed a bug in the I²C code whereby a corruption of data could occur when communicating over the security pipe.

2 ISSUE 24 OF THE WINDOWS DRIVERS AND ISSUE 11 OF THE LINUX DRIVERS (29/11/2004)

This covers new features in Issue 24 of the Windows X10 drivers and Issue 11 of the Linux X10 drivers:

- During initialisation the X10 now attempts to automatically detect the currently fitted EEPROM. The X10 can differentiate between the following devices: 24LC01, 24LC02, 24LC04, 24LC08, 24LC16, 24LC32, 24LC64, 24LC128, 24LC256 and 24LC512.
- A new function has been added to the X10 API called `CheckEEPROM()`. This detects the currently fitted EEPROM.

3 ISSUE 25 OF THE WINDOWS DRIVERS AND ISSUE 12 OF THE LINUX DRIVERS (22/02/2005)

This covers new features in Issue 25 of the Windows X10 drivers and Issue 12 of the Linux X10 drivers:

- A customer found that reading the X10 security switches during their game produced noticeable glitches in the frame rate when the read occurs. The X10 API function in question, `ReadAndResetSecuritySwitchFlags()`, is particularly slow because the X10 needs to communicate with the onboard PIC using a slow I2C link. A new faster function has been created called `CachedReadAndResetSecuritySwitchFlags()`.