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Technical Bulletin

EEPROM Upgrade

Heber has upgraded the EEPROM in Firefly X10 from a 24LC04 (0.5k) to 24LC256 (32k) part. This improves the amount of storage and also improves the speed of data writes.

Your software will need to change, if you are already using the EEPROM to store data, because the *ConfigureEEPROM()* function needs to be passed the new parameters. The change can be automatic, since the old 24LC04 address is 0x50 and the 24C256 address is 0x51.

So the software becomes:

```
ConfigureEEPROM(16,1,512,0x50)  
ReadEEPROM( 8, *array, 1)
```

If the read succeeds, then the device is a 24LC04.

```
ConfigureEEPROM(64,2,32768,0x51)  
ReadEEPROM( 8, *array, 1)
```

If the read succeeds, then the device is a 24LC256. Otherwise, there is a fault.

You will need to use the latest version of the Firefly X10 software. The new driver will automatically detect that the upgraded EEPROM is fitted and Firefly X10 continues to work. If you are not using the latest version of the Firefly X10 software then you may experience problems and Firefly X10 may stop working. The latest version of the Firefly X10 software is:

- Development Kit Software - Issue 25
- Linux Drivers - Issue 12

The latest version of the Firefly X10 Software is available on the Heber website (www.heber.co.uk) in the **Developers Area**. Go to the **Firefly X10 Software Downloads** area in **Firefly Technical Support**.

All shipments of Firefly X10 after 17/9/2004 have the upgraded EEPROM fitted (01-16455 issue 7 onwards).