

# TFTP Firmware upgrade

## Application Note 301

Revision 2, October 2008

This Application Note describes how to upgrade the firmware of your *proconX* module using the TFTP method.

### Prerequisites

- File transfer utility (Tftpd32.exe)
- Firmware binary file (\*.bin)

The Tftpd32 utility is available from the *proconX* website.

### Preparation

Establish an Ethernet network connection between the *proconX* module and a Windows PC.

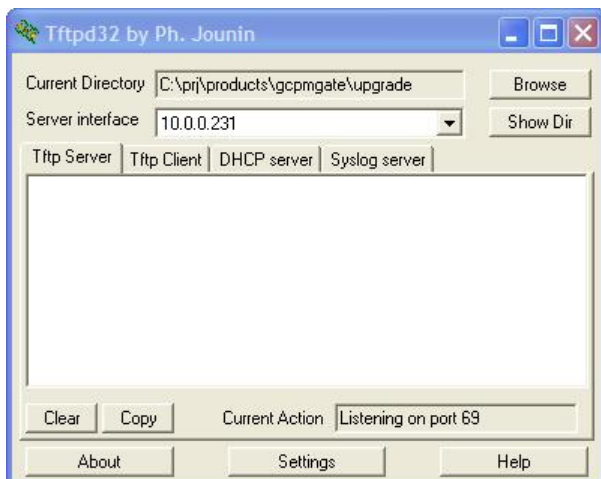
The module and the Windows PC must be on the same subnet.



Make sure that there is no DHCP or BOOTP server connected to the network. If in doubt, disconnect both, PC and *proconX* module from the network and use a CAT5 cross-over cable to connect them directly.

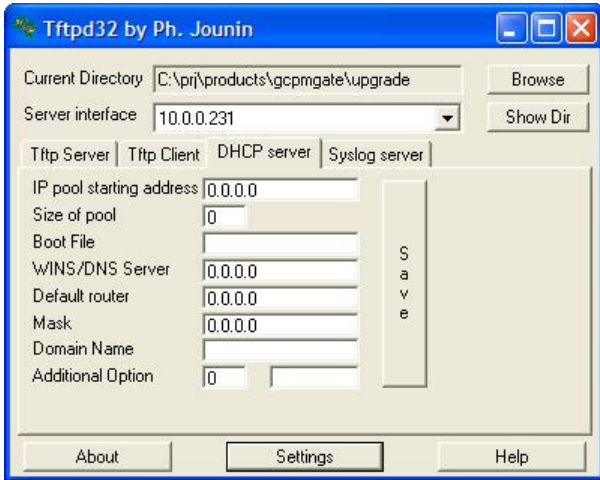
### Running the file transfer utility

Launch Tftpd32.exe on your Windows PC.



Tftpd32 Start-up Screen

Click on the **DHCP** tab to configure the server utility.

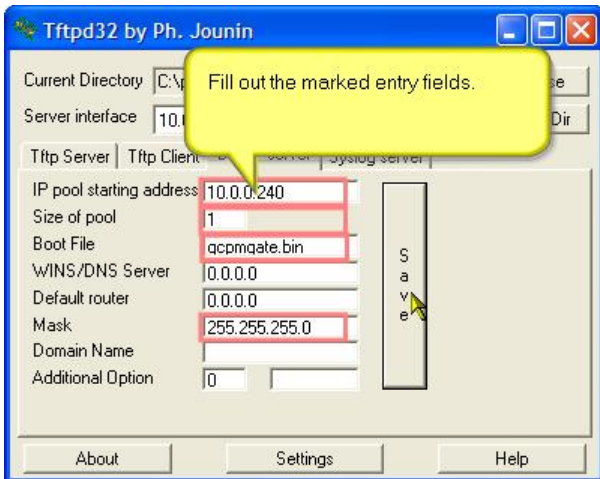


DHCP Configuration

Enter the following settings:

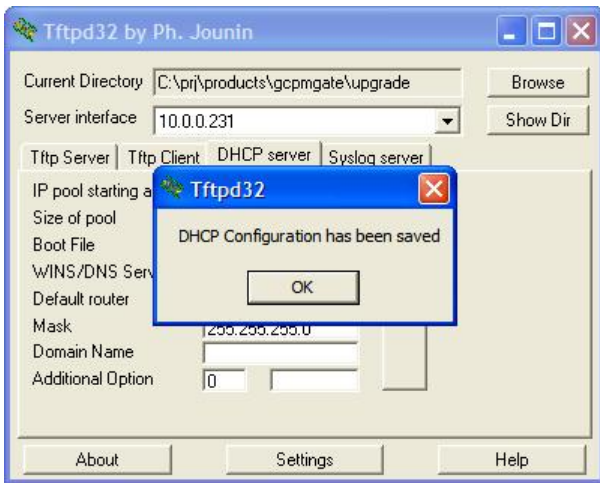
- Choose an IP address for the module. This IP address must be of the same subnet as your computer and not assigned to another network node. In most cases this means that the first three numbers of the IP addresses must be identical. Your computer's IP address is shown as Server interface.
- Enter 1 as value for the pool size.
- Enter the name of the binary file to be uploaded.
- Enter netmask of the subnet. In most cases this is 255.255.255.0.

Click on the **Save** button to activate these settings.



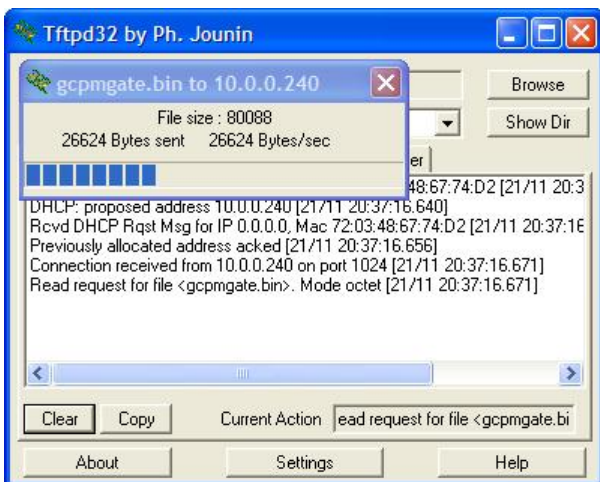
DHCP Settings

The settings have been saved.



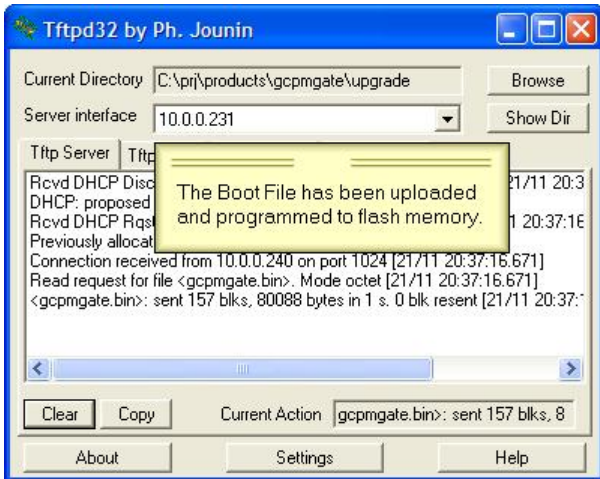
Configuration has been saved

Power-cycle the *proconX* module. Upon restart the module will contact Tftpd32 to obtain an IP address and check if a boot file is available. If the TFTP server offers a file for download, the *proconX* module will load this file and program it into its flash memory.



File Upload in progress

Once the boot file has been sent to the *proconX* module, it will start the newly loaded firmware.



Log Window

The firmware upgrade is completed.

*proconX* and *FieldTalk* are trademarks of *proconX* Pty Ltd. All other product and brand names mentioned in this document may be trademarks or registered trademarks of their respective owners.

## Disclaimer

*proconX* Pty Ltd makes no warranty for the use of its products, other than those expressly contained in the Company's standard warranty which is detailed in the Terms and Conditions located on the Company's Website. The Company assumes no responsibility for any errors which may appear in this document, reserves the right to change devices or specifications detailed herein at any time without notice, and does not make any commitment to update the information contained herein. No licenses to patents or other intellectual property of *proconX* are granted by the Company in connection with the sale of *proconX* products, expressly or by implication. *proconX* products are not authorized for use as critical components in life support devices or systems.

## Support & product feedback

We provide an electronic support and feedback system for our *proconX* products. It can be accessed through the following web link:

<http://www.proconx.com/support>

Your feedback and comments are always welcome. It helps improving this product.

## Contact

For further information about this document please contact us at:

*proconX* Pty Ltd  
PO Box 791  
Sumner QLD 4074  
Australia  
Website: <http://www.proconx.com>