AXTRINET™

Ethernet Packet Generator

Getting Started Guide

Version 2.0

BOX CONTENTS

The shipping carton contains:

- APG Unit
- Universal 12Vdc 5A Power Supply & local mains lead
- 1m USB Type B lead
- Getting Started Guide
- Axtrinet Resource CD for Windows and Linux:
  USB Drivers, APG GUI Application, APG TCL API

Visit www.axtrinet.com/downloads to download the latest documentation and software.

MINIMUM SYSTEM REQUIREMENTS

Processor	Pentium-class processor or equivalent
Memory	2GB (4GB recommended)
Disk Space	15MB
OS	64bit (x86_64) Linux systems Microsoft Windows 7 / 8.x / 10.x
Interfaces	Minimum: USB 2.0 Preferred: USB 2.0 & 10/100Base-T

LINUX INSTALLATION

The Axtrinet APG Linux package contains the GUI application and the system configuration file.

The GUI requires X-Windows to be running.

There are 4 installation formats provided for convenience:

- Simple tar
- Pacman
- RPM
- Deb

Pick the one that suits the distribution and the package should install with the normal package handling tools or use the commands below.

Currently all packages are for 64bit (x86_64) linux systems. The package files may not have all package dependencies because package names vary between different linux distributions.

The tools have minimal dependencies, although the main dependency to be resolved is the older version of libusb-0.1.

Pacman

Install with:
```
pacman -U apgcontrol-2.0-1-x86_64.pkg.tar.xz
```
Remove with:
```
pacman -R apgcontrol
```

RPM

Install with:
```
rpm -U apgcontrol-2.0-1.x86_64.rpm
```
or:
```
yum localinstall apgcontrol-2.0-1.x86_64.rpm
```
Remove with:
```
rpm -e apgcontrol
```

There are a set of MD5/SHA1/SHA256 sums for the package files.

The package includes a desktop link that should appear under Network tools.

If it doesn't work

Provided the package install worked, once installed there should be an executable 'apgcontrol' in /usr/bin. If it does not run then check for missing libraries with:

```
ldd /usr/bin/apgcontrol
```

Dependencies

The following packages are known to be needed:
On arch: libusb-compat, libxft, libpcap
On centos: (rpm)   libusb, libXft, libpcap
On Suse: (rpm)   libusb-0, libpcap

WINDOWS SOFTWARE INSTALLATION

1. Insert the CD.

2. Run the installation file in the Windows directory and follow the on-screen instructions to install the USB driver, APG Control Interface GUI and shortcuts.
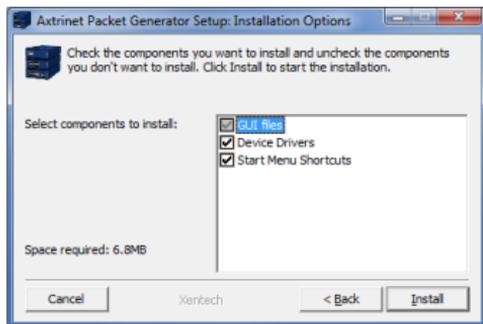
> **DO NOT CONNECT THE AXTRINET PACKET GENERATOR TO THE WINDOWS PC UNTIL THE INSTALLATION IS COMPLETE.**

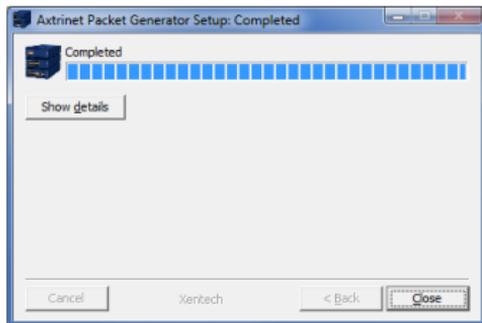3. Read and accept the software Licence Agreement:

4. Select the components to install:

Click ![Install] to install the selected components.

5. The window changes to display the installation progress.

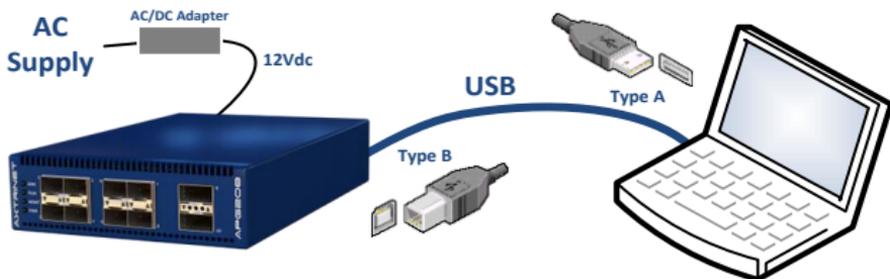6. Close completes the installation process.

CONNECTING THE HARDWARE

- Attach the ac mains supply lead to the power adapter, connect the adapter to the unit and apply power.

  ➢ The POWER LED will be illuminated ORANGE for ~60 seconds while the hardware configures.

  ➢ The POWER LED will turn GREEN after successful configuration, or RED if the hardware has failed to configure.

> **If the POWER LED turns RED after configuration, contact AXTRINET for further support.**
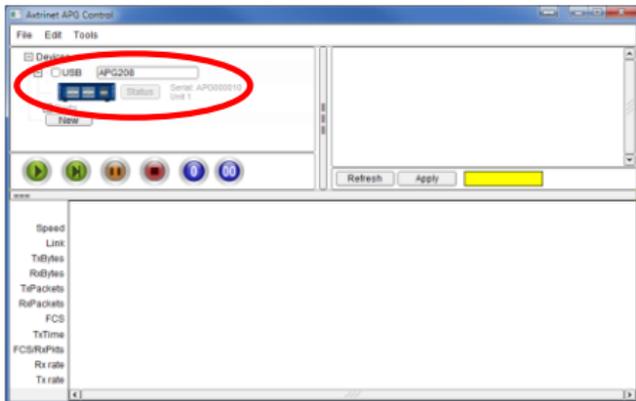
- Connect the management PC to the APG unit using the USB Type B lead (provided).

TESTING THE INSTALLATION

- Start the APG Control Interface:

    - On Linux, click the **home / Axtrinet Control** icon or execute **user/bin/apg_control**

    - On the Windows Start menu, locate the Axtrinet directory and click on the **APG Control** icon.

- The APG Control Interface window is be displayed and the new unit will appear as a USB connection:

> ⚠️ **If the unit does not appear in the Control Interface, check that the unit is turned on and the USB lead is connected.**
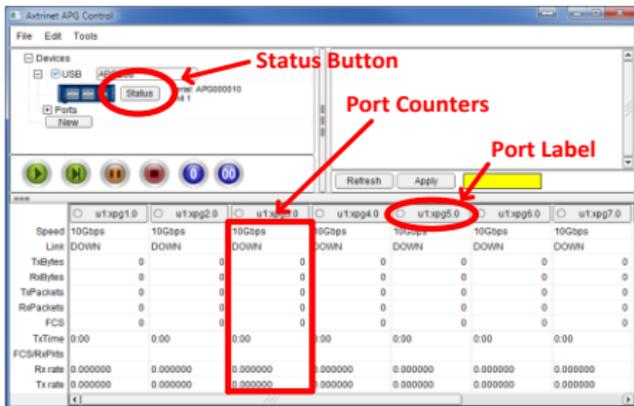
> ⚠️ **If installing the drivers onto a PC for the first time, it may be necessary to re-run the installation process after the device has been connected as the USB drivers may not be enabled.**

- To connect to the unit, click on the Checkbox next to the device.

If the unit port counters and unit Status button are displayed, the drivers and APG Control Interface have been successfully installed:

- Click on the Port Counters to view the port stream configuration.
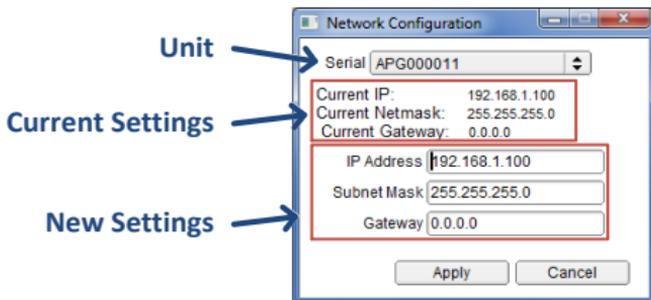- Click on the Port Label to enable/disable port control.

SETTING THE IP ADDRESS

> ⚠️ **You may need to contact your Network Administrator to obtain the required IP and Gateway Addresses**

To change the IP Address of the unit:

- On the MENU BAR: Tools → Network Configuration
  The IP Configuration Window opens:

Unit → Serial APG000011

Current Settings →
Current IP: 192.168.1.100
Current Netmask: 255.255.255.0
Current Gateway: 0.0.0.0

New Settings →
IP Address 192.168.1.100
Subnet Mask 255.255.255.0
Gateway   0.0.0.0

Apply   Cancel

- Set the IP Address, Mask and Gateway Address, then click APPLY

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