FNGi
First Network Group Inc

DHCPatriot™

The DHCPatriot™ is a broadband subscriber authentication device designed to give network administrators the same visibility on DHCP networks they once had on dial networks.

Introduction

The DHCPatriot™ has been in production since late 2001. As such, there have been several models over the years. The chart below will help in the identification of models, as well as provide hardware specifications and safe capacity information of each model. Beginning with model 2007-1 the model of hardware is noted on the bottom of the device.

All hardware revisions of the DHCPatriot™ system consist of two identical 1u rack mount devices. All devices are and have been Intel based. At present, Version 6 of the DHCPatriot™ software requires 64-bit and thus 2008-1 or newer hardware.

The IP address usage capacities shown below are based on an average 8 hour lease per IP. The average lease length is computed by adding all the lease lengths together and dividing by the total number of IP addresses configured on the machine.

The number of supported IP addresses shown relates to the average number in use, not the number that may be configured on the system. The DHCPatriot™ system will not prevent the allocation of further IP addresses beyond the max, however, the system may become unstable. The numbers shown are valid even if one of the devices have failed and only one device from the set is running.
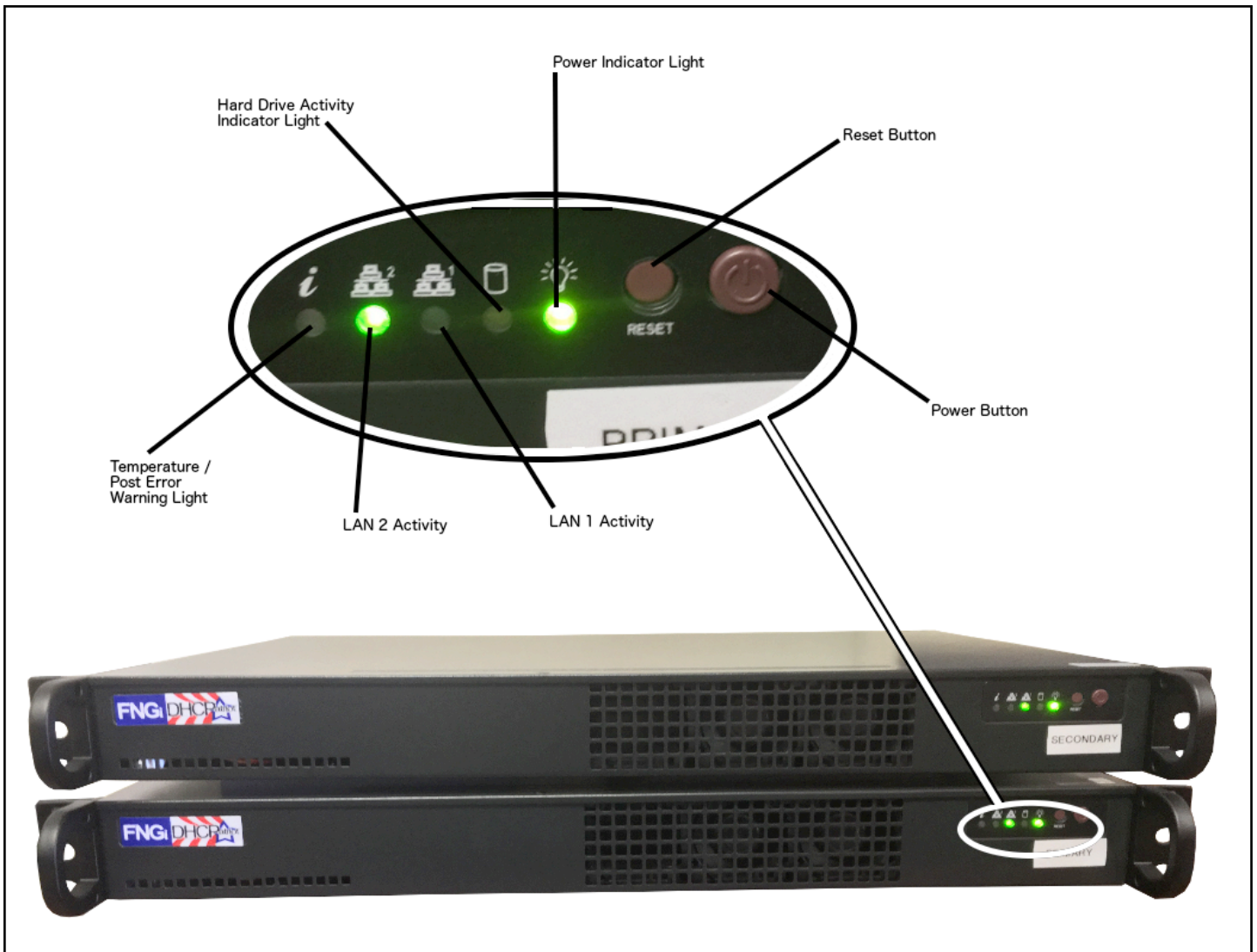
Hardware Models and Specifications

Model	Year	CPU	RAM	HD	Max IP Address Usage*	DHCP QPS
2001-1	2001	Single	256MB	40GB	11200	Unknown
2001-2	2002	Single	512MB	40GB	11200	Unknown
2003-1	2003	Single	512MB	80GB	11200	Unknown
2007-1	2006	Dual	1GB	160GB	16800	Unknown
2008-1	2007	Dual	4GB	160GB	67200	10
2008-2	2009	Quad	4GB	160GB	67200	10
2009-1	2009	Dual	4GB	250GB	67200	10
2009-2	2009	Quad	4GB	250GB	67200	10
2011-1	2011	Quad	4GB	500GB	144000	25
2013-1	2013	Quad	8GB	500GB	144000	75
2016-1	2016	Quad	16GB	240GB	144000	300
2021-1	2021	Quad	16GB	400GB	144000	300

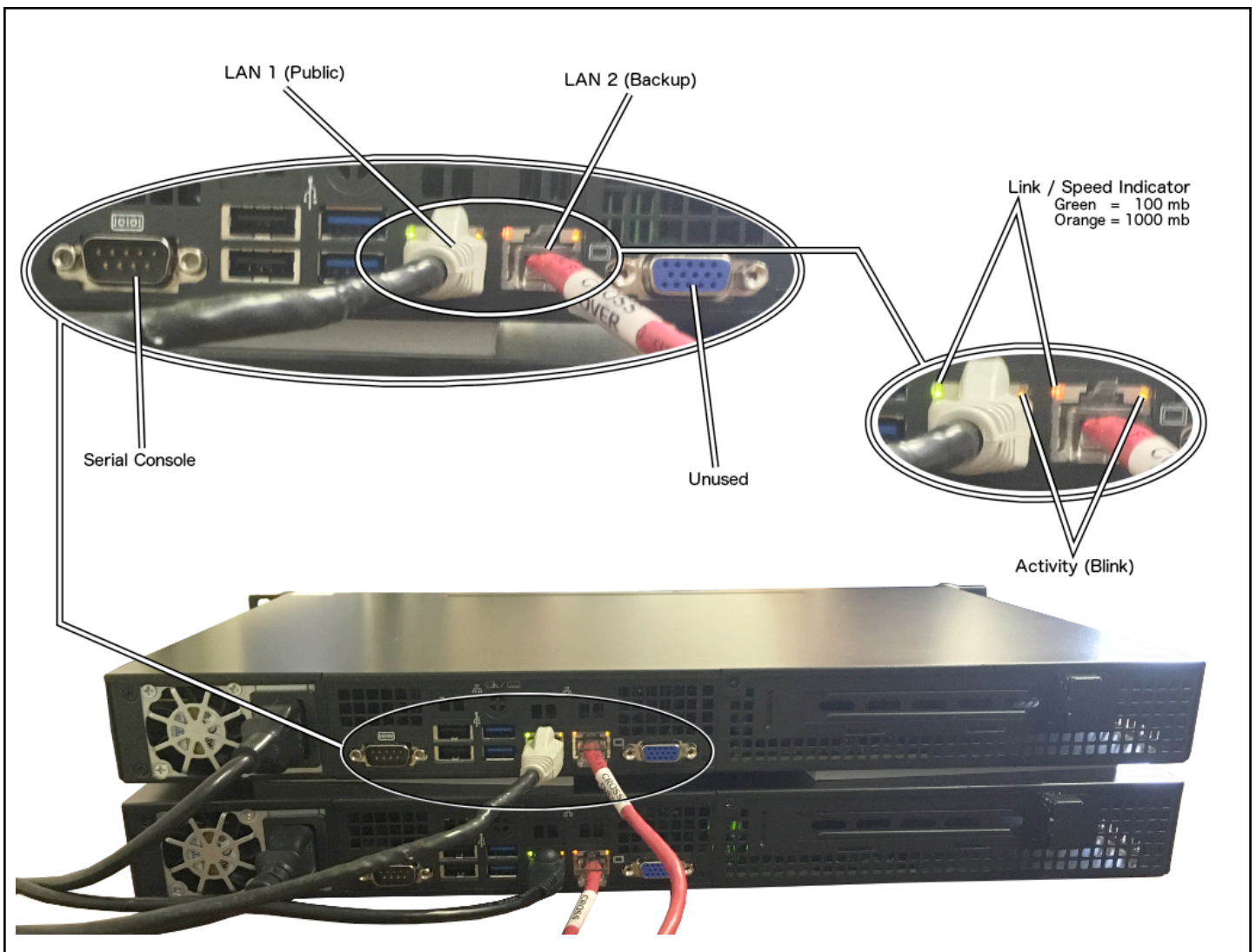* Average 8 hour lease across all configured IP addresses.

Other Hardware Features

The DHCPatriot™ system has an array of indicator lights, buttons and ports as shown in the figures below. Some of the ports such as the USB and video ports are unused.

DHCPatriot™ System front indicator lights (2016 model pictured)

The front of the DHCPatriot™ device contains several indicator lights and buttons. The power button cycles the power. To power off the device without properly shutting it down (not recommended), it is necessary to hold the button down for 4 seconds. If the device is powered on, the power indicator light will be lit up in green. Merely plugging in the power cable and ethernet cords may cause the LAN 1 and LAN 2 to blink, while the power indicator light is dark. This means that the DHCPatriot ™ device is not powered on, and the power button must be pressed. A pen, pencil or other pointed instrument must be used to press the recessed reset button. Take care not to press to hard damaging the button. The hard drive activity light will blink orange when hard drive activity is present, such as during normal operation of the system. The temperature / post error warning light, if lit up or blinking red, indicates a problem with the system. The system is either to hot, or there is a hardware malfunction.

DHCPatriot™ System back ports and indicator lights (2016 model pictured)

The back of the DHCPatriot™ system devices feature ports and indicator lights for integration into the network and visual verification of function. Serial console is available for initial setup and ongoing maintenance of the devices. The DHCPatriot™ manual available for download on www.network1.net, on the administration interface of the DHCPatriot™ system itself, or on the USB stick included with your purchase has further information regarding pinout and other needed information for setting up console access.

The device features two network interfaces. The LAN 1 port is used to connect the device to its home on the host network. Typically, this would be in a server farm with the DHCPatriot™ system having public IP addresses. LAN 2 connects the DHCPatriot™ devices to each other via a crossover cable (included). As of model 2003-1, each of these ports is gigabit capable. Each Ethernet port has two indicator lights. The left light may be either green or orange, signifying both link and 100mb or 1000mb respectively. The light on the right, which is yellow, signifies activity on the network by blinking.

It is possible to connect LAN 2 via network infrastructure as long as it is separated from other network traffic by VLANing or other method. Speed should be maintained at 100mb or more as the devices require high speed/bandwidth for data transfers between each other via this link. Using this method, each device could be located in a separate data center for additional redundancy. It should be reasonably certain that this link between the two would not be lost while both devices remain operational. If this happens, data corruption or improper function may occur.

How to Purchase

The DHCPatriot™ may be purchased direct, or through one of our reseller partners. If purchased direct, no discount from MSRP will be available.

To purchase through a reseller, please contact your reseller of choice. For a current list of resellers, with contact information, please visit http://www.network1.net/products/dhcpatriot/, email DHCPatriot@network1.net or call 800-578-6381 opt.3 (419-739-9240 if outside the United States of America) with your request.

To purchase direct or receive pre-sale support, please use the following contact information:

DHCPatriot@network1.net

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