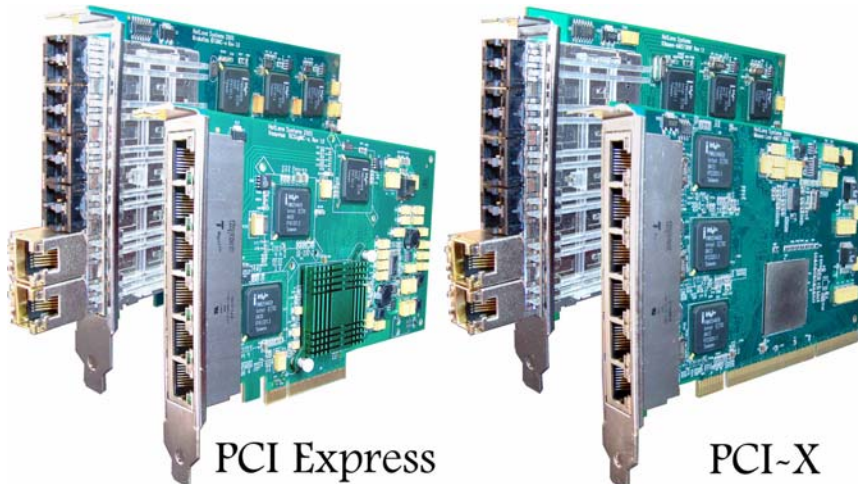


## Six-Port Gigabit Ethernet Network Adapters



### Highlights:

- Highest Port Density in a PCI Card
- Hot Swappable and Interchangeable SFP Transceiver Modules
- Plug and Play Installation
- Native Driver support for virtually all operating systems

### Six Independent Gigabit Ethernet Ports – Fiber or Copper

HotLava's multiport NICs are a RoHS compliant family of PCI Express and PCI-X based gigabit Ethernet adapters offering six independent channels in a single PCI card. Ideally suited for space constrained network appliances and servers, they provide maximum port density and network bandwidth for current high-end server boards.

#### Features

- Highest port density in a standard PCI card
- Small Form Pluggable (SFP) Transceivers
- PCI Express 1.1, x8 signaling
- PCI – X at 66, 100, or 133MHz
- Intel 82546 Ethernet Controllers
- IEEE 802.3ab compliance
- Ultra Deep 64KB Packet Buffer per Channel
- Large Send Off-load & TCP Segmentation Off-load
- Interrupt Moderation

#### Benefits

- ⇒ Most efficient usage of space and bus bandwidth
- ⇒ Flexibility to mix and match any combination of multi-mode, single-mode or copper media
- ⇒ Enables maximum network I/O bandwidth from today's high-end server boards
- ⇒ Supports all 64-bit PCI slots on current as well as legacy server boards
- ⇒ Native driver support for virtually all operating systems
- ⇒ Supports gigabit Ethernet industry standard
- ⇒ Lowers CPU utilization and minimizes congestion
- ⇒ Enables near wire-speed performance with low CPU utilization. Compatible with Large Send Off-load feature in Windows Server 2003, 2000 and XP.
- ⇒ Delivers higher performance with lower CPU utilization

## Product Specifications

Product Name	Krakatoa	Vesuvius	Kilauea	Mauna Loa
Slot Type	PCI Express 1.1	PCI Express 1.1	PCI - X	PCI - X
Media Connector	(6) Hot-Swappable SFP/ LC modules	(6) Copper RJ-45 MDX Auto negotiating	(6) Hot-Swappable SFP/ LC modules	(6) Copper RJ-45 MDX Auto negotiating
Network Topology	1000BASE-SX 1000BASE-LX 1000BASE-T	10BASE -T 100BASE -TX 1000BASE -T	1000BASE-SX 1000BASE-LX 1000BASE-T	10BASE-T 100Base-TX 1000Base-T
Form Factor	6.58 in x 4.33 in	6.58 in x 4.33 in	6.58 in x 4.21 in	6.58 in x 4.21 in
Status LEDs	Link Active, Activity	Link Active, Activity, Rate	Link Active, Activity	Link Active, Activity, Rate
Power Consumption	19W max	19W max	14W max	14W max

## Common Specifications

Operating System Support	
Windows Server 2008, 2003, 2000	Solaris 7 or later
Windows XP	UnixWare 7.x
Windows NT	OpenUNIX 8 (ddl8)
Linux 2.4x or later	SCO 5
FreeBSD 4.x or later	VMWare – ESX
NetBSD 1.6.x or later	Xen, XenEnterprise
Novell Netware 4.11 or later	Inferno
	Apple OS X (provided by www.small-tree.com)
General	
Ethernet Controllers	(3) Intel 82546GB
Onboard Cache	384 KB (64 KB/port)
Advanced Features	
Switch Fault Tolerance	802.1Q VLAN Tagging
Adaptive Load Balancing	802.3x Flow Control
Interrupt Moderation	802.1p Class of Services
Adapter Fault Tolerance	TCP Checksum Offload
	TCP Segmentation Offload
	802.3AD Link Aggregation
Environmental	
Operating Temp	0 to 55 °C with 200 LFM airflow
Storage Temp	-40 to 70 °C
Operating Humidity	5 to 85% non-condensing
Storage Humidity	0 to 85% non-condensing
RoHS 6 Compliant	Yes
Ordering Information	
Product Name	Product Number
Krakatoa	6S1E4613
Vesuvius	6C1E4613
Kilauea	6S1X4614
Mauna Loa	6C1X4614

## Applications

<b>Network Security Appliances</b>	Firewall / VPN Multi-purpose Gateway / Router High Availability / Redundancy Load Balancing
<b>Servers</b>	Link Aggregation High Availability / Redundancy Backup Networks Storage / Web / DNS
<b>Virtualization</b>	Maximize Network Bandwidth Redundancy / Backup Multiple Dedicated VM Ports
<b>Video over IP</b>	Surveillance, IPTV
<b>iSCSI</b>	Initiator / Target
<b>Traffic Generator</b>	Maximize Bandwidth and Connectivity

