LUCID
VISION LABS

Provides the most efficient non-fan solution for integrating four 5.0GBASE-T/ 2.5GBASE-T/ 1000BASE-T/ 100BASE-TX/ 10BASE-Te Ethernet to PCI Express Single Chip Host controllers into a small board design. Each Ethernet port to PCI Express Single Chip Host controller takes advantages of 4-lane PCI Express bus in both directions. Functions such as Crossover Detection and Auto-Correction, polarity correction, adaptive equalization, cross-talk cancellation, echo cancellation, timing recovery, and error correction are implemented to provide robust transmission and reception capability at high speeds.

LUCID Model Number:	Ports:
PCIE-POE4-5G-IOI	Four (4) 5/2.5/1GBASE-T RJ45 Ethernet ports with PoE+

Specifications	
Chipset:	• **Realtek RTL8126**
PCI Express:	• **4-lanes, Gen3 PCI Express interface, compliant with PCI Express Base Specification Revision 3.0**
POE + Feature:	• **100 meters over Cat 5e and Cat 6a at 5Gbps / 2.5Gbps/ 1Gbps/ 100Mbps** • **In compliance with IEEE 802.3at-2009 (PoE+), each port delivers up to 25.5 W of power.** • **IEEE 802.1q, VLAN support.** • **16 kB jumbo frame support.** • **PCIe Slot: 25W Slot (Max 25W), 75W slot (Max 30W).** **IDE Power (Max. 60W), SATA Power (Max. 48 W)**
Operating Temperature:	• **0°C - 55°C**