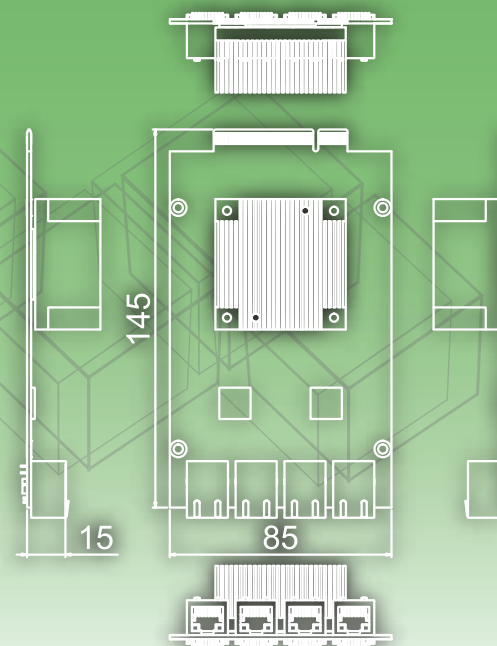
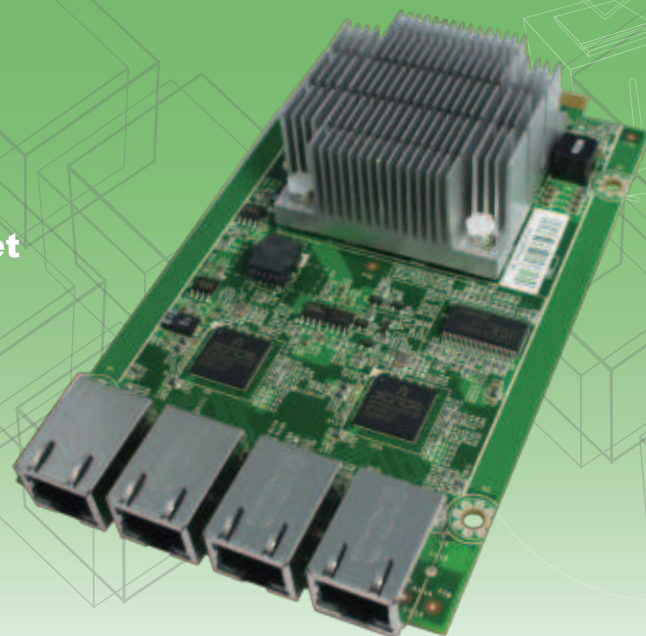


NIP-71042

The 4 Copper LAN Ports Network Module with Intel® Cave Creek Chipset



Solutions

The CASwell 4 copper LAN ports network module uses the Intel® latest Cave Creek Chipset with Intel® QuickAssist technology(QAT) which delivers amazing optimized cryptography and compression performance on network packets processing with CPU offload. The NIP-71042 network module can support higher-performance packet handling capabilities and throughput for the CASwell communication appliance series.

The NIP-71042 utilizes and leverages the Intel Cave Creek PCH, which supports Intel® QuickAssist Technology, Intel® Virtualization Technology and Data Plane Development Kit (DPDK).

Intel QuickAssist Technology with cryptography, compression and pattern matching makes it easier for developers to integrate built-in accelerators to decrease development time and accelerate performance for demanding applications with specific hardware acceleration modules.

The Intel Cave Creek chipset provide better solution for network security (IPsec, SSL/TLS), as well as encrypted storage applications. It supports up to 20Gbps security performance. Furthermore, the feature of data compression provides a very effective way for Internet security protocol transmission such as IPComp (http compression) and WAN optimization/acceleration. Intel Cave Creek chipset provides up to 8.5Gbps within 50% compress and 50% decompress.

In addition, Intel Virtualization Technology incorporated in the Cave Creek chipset supports PCI-SIG Single Root IO Virtualization (SR-IOV), and one physical function and 16 virtual functions. The acceleration device supports SR-IOV, and can be controlled directly through the virtual machine (VM). Specially, the SR-IOV allows partitioning of a single Intel Ethernet Server Adapter port into multiple virtual functions. Users can use these virtual ports to create multiple isolated connections to virtual machines to achieve optimized virtualization.

CASwell's NIP-71042 is one revolutionary product. It comes with durable architecture and reasonable price. For more information, please visit CASwell website: www.cas-well.com or contact us by phone: +886-2-7705-8888.



Key Features

- 4 copper LAN ports
- Durable hardware design
- Intel® Communications Chipset 89xx Series (formerly codenamed Cave Creek)
- Intel® QuickAssist Technology Supported
- Intel® Virtualization Technology Supported
- Intel® PCI-SIG SR-IOV Supported
- Intel® Data Plane Development Kit Supported



Hardware specification

OS Support	Linux Kernel
Interface	Generation 2.0 (5GT/s) PCI Express x8
Dimension (W x D x H)	85 x 145 x 15 mm
Holder	Metal Bracket
LAN Controller	Intel® Cave Creek Chipset BroadCOM BCM5482A1
Operating Temp	0 ~ 40 °C
Operating Humidity	20 ~ 90% RH
Ethernet Ports	4 copper LAN ports
Certification	FCC, CE
Launch Date	Mar. 2013

Ordering Guide

Model	Part Number	Description
NIP-71042	A13-3326	NIP-71042. Gen 2 PCI-Ex8 module. 4C GbE. w/o BP. Cave Creek w/ BCM5482A1KFBG