

NIP-86020

Next Generation Network Module 40GbE
Fiber Dual QSFP+ Ports



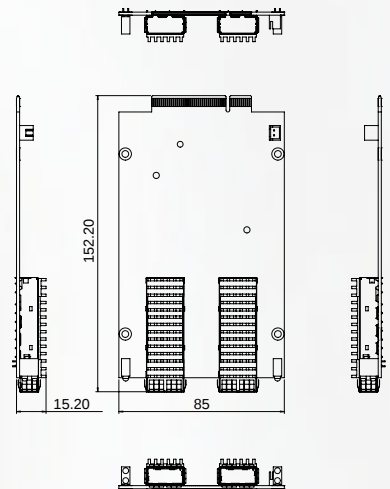
The New CASwell Network Module 40GbE Fiber

The NIP-86020 leverages Mellanox Ethernet controller connectx-3, fully compliant with 40 GbE network interface. Provides IPv6 Offloading, IEEE 1588 precision time protocol circuitry synchronizes, RDMA over Converged Ethernet and Jumbo Frame functions. It delivers high-bandwidth and industry-leading Ethernet connectivity for performance-driven server and storage applications in Enterprise Data Centers. Through virtualization acceleration technology supports virtual machine software including VMware, Microsoft, Citrix, Oracle and others.

40Gbps Fiber with PCIe 3.0 Interface

CASwell NIP-86020 is a high-performance dual 40 Gbps intelligent PCIe Gen 3.0 fiber network module, fully compatible with all CASwell's 1U and 2U network appliances. U Unique hardware design, can easily install into any CASwell 's appliances.

Perfectly compatible with CASwell new generation network compliance CAR-5030



Key Features

- IEEE 802.3ba 40 Gigabit Ethernet
- IEEE 802.3ad Link Aggregation and Failover
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 1588 Precision Clock Synchronization
- Jumbo frame support (10KB)
- Single Root IOV
- Multiple queues per virtual machine
- Enhanced QoS for vNICs
- RDMA over Converged Ethernet
- TCP/UDP/IP stateless offload
- Remote boot over Ethernet
- Remote boot over iSCSI

Hardware specification

NIP-86020	
OS Support	Windows, Linux 2.4, 2.6
Interface	Generation 3.0 (8GT/s) PCI Express x8
Date Rate & Bus speed	40 Gbps bi-directional bandwidth
LAN Controller	Mellanox Connectx-3
Miscellaneous	Low-profile bracket, full-height bracket
Dimension (W x D x H)	85(W) X 162.1 (D) X 17,1 (H) mm 3.35"(W) x 6.38"(D) x 0.76"(H)
Operating Temp.	5 ~ 45 °C
Operating Humidity	20 ~ 90% RH
IEEE Compliant	IEEE 802.3
Ethernet of Ports	40GbE fiber Dual QSFP+ ports
Certification	UL, FCC, CE
Launch Date	May. 2013

Ordering Guide

Model	Part Number	Description
NIP-86020	AI3-3363	NIP-86020 .Proprietary NIC. Mellanox MT27518A0-FCCR-BE .PCI-Ex8 Gen3. 40G QSFP+ Dual Ports
Finisar 40GBASE-SR4 Transceiver module	B4724650	P/N: FTL410QE2C 4x10.5G Parallel VCSEL array, 4x10.5G PIN array, 40GBASE-SR4 100m 40GbE, RoHS/lead free, multimode,