

Interface Masters

TECHNOLOGIES
Innovative Network Solutions

OVERVIEW

Sierra 3353 is a low-profile Quad-Port 1/10G SFP+ Fiber NIC with encryption offload. This high performance NIC is based on Cavium's NITROX V series IPsec and SSL acceleration technology and Intel's Fortville XL710-AM1 Quad MAC and PHY Ethernet controller. Sierra 3353 supports several members of the Cavium NITROX V family including CNN5560-900, CNN5560-850, CN5560-750, CNN5560-550, CNN5530-550.

Sierra 3353 is designed to integrate with PCI Express compatible servers and high-end appliances providing high speed networking and for all mission-critical applications. The device is fully compatible with Intel drivers and Software Development Kits (SDK) and supported by Cavium NITROX V SDK. Sierra 3353 supports high-speed networking and hardware assisted encryption off-load for high-reliability applications such as network security appliances, data analytics platforms, data center virtualization, secure data center to data center file transmission, software defined networks and network function virtualization services.

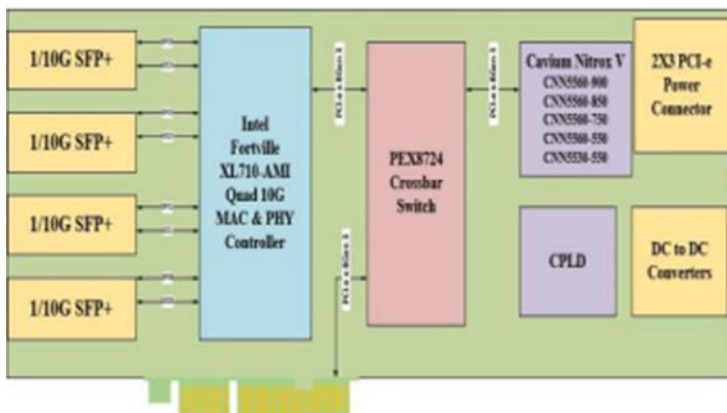
In partnership with Cavium, Interface Masters offers this combined Network Interface Card with market leading NITROX V encryption off-load technology.



Sierra 3353 ISO View

Product Features:

- PCI-e x 8 Gen 3.0 compatible server adapter.
- Quad-port SFP+ connector for multi-mode or single-mode support.
- Peak bandwidth 8 GT/s in each direction per PCI Express lane.
- 80 Gigabit per second of full duplex traffic when fully utilized.
- Cavium NITROX V family series support for SSL/IPSec hardware acceleration offload.
- Intel FTXL 710-AM1 quad MAC & PHY Ethernet controller.
- Virtualization support.
- Integrated PHY for full and half-duplex 10Gb support.
- TCP/UDP/IP checksum offload and TCP/UDP segmentation IEEE 802.1q, 802.3ab, 802.3x compliant.
- Layer 2, 3 and 4 advanced packet filtering capabilities (IPv4, IPv6).
- Low-profile form factor.
- Low-power consumption.
- Full RoHS compliance.
- FCC class A and CE certification.



Block Diagram of Sierra 3353

ENVIRONMENTAL	
Operating Temperature	0° to 40 °C
Storage Temperature	-20° - 65°C
Operating Humidity	0 to 90%, non-condensing

DIMENSIONS		
	Inches	Millimeter
Length	7.75	196.8
Height	2.71	68.9

POWER CONSUMPTION	
Boards with Different Options	Power Consumption (W)
Board populated with CNN5560-900-C45 (900 MHz)	64.78
Board populated with CNN5560s-850-C45 (850 MHz)	59.14
Board populated with CNN5560i-850 (850 MHz)	54.24
Board populated with CNN5560-750-C35 (750 MHz)	57.39
Board populated with CNN560-550 C25 (550 MHz)	52.29
Board Populated with CNN5530-550-C15 (550 MHz)	46.98

ORDERING INFORMATION	
Part Number	Description
CNN5590-900-C45	Cavium CNN5590, Full length, short bracket installed
CNN5590-900-C45	Cavium CN3510, half height, full length, short bracket installed
CNN5590-900-C45	Cavium CN3510, half height, full length, short bracket installed
CNN5590-900-C45	Cavium CN3510, half height, full length, short bracket installed
CNN5590-900-C45	Cavium CN3510, half height, full length, short bracket installed

Module Ordering Number	
E10GSFPSR	Dual-Port 1/10G SFP+ SR
E10GSFPLR	Dual-Port 1/10G SFP+ LR
FCLF-8251-3	1000Base-T
XSFP-T-RJ12-0101-DLL	1000Base-T
ABCU-5710RZ	1000Base-T

CUSTOMIZATION SERVICES

Hardware, Firmware, Linux O/S and application code development services available.



ABOUT INTERFACE MASTERS TECHNOLOGIES, INC.

Interface Masters Technologies is a long term Cavium partner and leading provider of high speed networking solutions focused on Gigabit, 10 Gigabit, 40 Gigabit and 100 Gigabit Ethernet networking solutions. For over 20 years, Interface Masters Technologies has been providing innovative networking solutions with customization services to OEMs, large enterprises and sophisticated end users. Interface Masters Technologies provides Ethernet switches, appliances, server adapter cards with high port density, networking offload and bypass functionality. Company headquarters are located in San Jose, CA with satellite offices in Hong Kong and Europe.