NCP-3120

1U 1-Way Packetarium™ Network Processor Platform

Features

- Entry level Advantech Packetarium™ based Network Appliance
- FRU-designed I/O tray, supports different external Ethernet I/O
- Supports up to eight SATA 2 SSDs
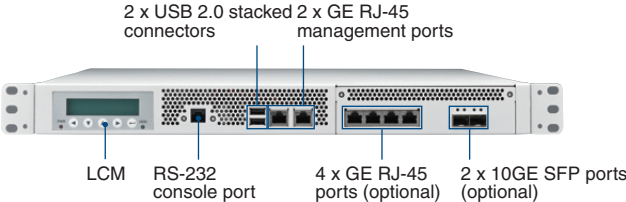- One Standard PCIe Expansion

Introduction

The NCP-3120 represents the entry level Advantech Packetarium™ Network Appliance. It integrates powerful and multi-Core Packetarium™ network processing cards for wire speed packet processing. The main carrier board provides eight SATA controllers, an eight lane PCI Express Gen2 expansion slot, and two I/O slots for FRU-designed I/O board usage. FRU-designed I/O board provides more flexibility than external I/O configuration. Each I/O slot can provide up to 20 Gigabits bandwidth.

Eight SATA controllers on the server board connect to eight SATA 2 devices. Each device with dedicated PCI Express bus provides high performance. The scalability of the NCP-3120 positions it ideally for OEMs designing entry level systems in enterprise networking. It is particularly applicable for applications in service provider networks for IPTV, storage function, enhanced security, in content-aware routing and subscriber-based services.

Main Carrier Board Specification

Processor		Depends on Packetarium Card
Memory		Depends on Packetarium Card
Network Interface	I/O Board Information	4 x GE RJ-45 with Hardware Bypass 2 x 10GE SFP+
	Management Port	Up to 1 x GE RJ-45
HW Management	Controller	Winbond W83793G
Storage System	Controller	8x Silicon Image SiI3132
	Storage Interface	Up to 8 x 2.5" SATA 2 SSDs
I/O Interface	Serial Port	1 x RJ-45 type console port
Expansion	Type	1 x PCI Express x8 slot
Power	Type/Watts	AC: 275 W / DC: 275 W
	Input	AC: 100 ~ 240 V_{AC} / DC: -36 ~ 72 V_{DC}
Cooling	FAN	4 x fans
Environment	Operation	0 to 40° C , 20% to 90% RH
	Storage	-20 to 70° C, 5% to 95% RH
Compliance	EMC/Safety	CE/FCC/UL/CB/CCC

Conceptual Front Panel

2 x USB 2.0 stacked connectors

2 x GE RJ-45 management ports

LCM

RS-232 console port

4 x GE RJ-45 ports (optional)

2 x 10GE SFP ports (optional)

Ordering Information

Part Number	Description
NCPB-2310	Cavium OCTEON CN5650 16 Cores 800Mhz 2 x PCIex4 2 x XAUI
NCPB-2305	Cavium OCTEON II CN6335 6 Cores 1.3GHz 2 x PCIex4 1 x XAUI
NCPB-2320	Cavium OCTEON II CN6880 32 Cores 1.3GHz 2 x PCIex4 2 x XAUI