

NCP-3120

1U 1-Way Packetarium™ Network Processor Platform

NEW



Features

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

Introduction

The NCP-3120 represents the entry level of Advantech Packetarium™ Network Appliance. It integrates powerful and multi-Core Packetarium™ Network Processing Boards for wire speed packet processing. The main carrier board provides eight SATA controllers, eight lanes PCI Express Gen2 expansion slot, and two I/O slot for FRU-designed I/O board usage. FRU-designed I/O board could provide more flexibility external I/O configuration. Each I/O slot could 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™ Board
Memory		Depends on Packetarium™ Board
Network Interface	I/O Board Information	4 x GE RJ-45 with Hardware Bypass 2 x 10GE SFP+
	Management Port	Up to 2 x GE RJ-45
HW Management	Controller	Winbond W83793G
Storage System	Controller	8x Silicon Image Si3132
	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/Watt	AC: 275W / DC: 275W
	Input	AC: 100~240VAC / DC: -36 ~ 72VDC
Cooling	FAN	3 x fans
Environment	Operation	0 to 40 oC , 20% to 90% RH
	Storage	-20 to 70 oC, 5% to 95% RH
Compliance	EMC/Safety	CE/FCC/UL/CB/CCC

Packetarium™ Board Specification

Packetarium™ Board NCPB-2310 Cavium Octeon Plus	Cavium OCTEON PLUS CN5650-NSP-800 Mhz 4 x DDR2 DIMMs up to 8 GB 2 x 64 MB boot flash 2 x PClex4 2 x XAU1
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Ordering Information

Part Number	Description
NCP-3120-C3A0AE	NCP-3120 with NCPB-2310, 8x CE RJ-45 with HW bypass, Single AC PSU
NCP-3120-C3D0AE	NCP-3120 with NCPB-2310, 8x CE RJ-45 with HW bypass, Single DC PSU
NCP-3120-X3A0AE	NCP-3120 with NCPB-2310, 2x 10G SFP+ without module, Single AC PSU
NCP-3120-X3D0AE	NCP-3120 with NCPB-2310, 2x 10G SFP+ without module, Single DC PSU
NCP-3120-C3D0BE	NCP-3120 with NCPB-2310, 8x CE RJ-45 with HW bypass, Redundant DC PSU
NCP-3120-C3A0BE	NCP-3120 with NCPB-2310, 8x CE RJ-45 with HW bypass, Redundant AC PSU
NCP-3120-X3A0BE	NCP-3120 with NCPB-2310, 2x 10G SFP+ without module, Redundant AC PSU
NCP-3120-X3D0BE	NCP-3120 with NCPB-2310, 2x 10G SFP+ without module, Redundant DC PSU

Conceptual Front Panel

