

# ATCA-7310

## Dual CN6880 ATCA Node Blade with 40GbE Switch

**NEW**



### Features

- Dual Cavium OCTEON II CN6880 1.0 GHz with 32 cnMIPS™ II processor cores
- Up to 64 GB DDR3 1066 MHz DIMMs; 32 GB for each CN6880
- 2\*40 GbE (KR4) or 8\*10 GbE (KR) FI support
- Dual Star routing support
- Eight 10GbE SFP+ and four 1GbE SFP Rear I/O support
- Switch management support on L2, QoS, Multicast (SW options)

### Specifications

Network Processor Unit (NPU)	Processor	Dual Cavium OCTEON II CN6880	
	Max. Speed	1.0 GHz (option for 1.2G/300W)	
	Cores Per NPU	32 cnMIPS II processor cores	
NPU Memory	Interface	2 x DXAUI 1 x XAUI 4 x SGMII 1 x PCIe x4 2 x UART	
	Memory Socket	Four 240 pin VLP DIMM slots	
	Memory Type and Capacity	DDR3 1066 MHz ECC Registered DIMMs, up to 32 GB per processor	
	Processor	Freescale QorIQ P1011 e500 core 800MHz	
	Memory Type and Capacity	On board memory DDR3 667MHz 1GB ECC unbuffered memory chip	
Local Mgmt. Processor (LMP)	Interface	2 x SGMII 1 x RGMII 2 x PCIe x1 2 x UART USB 2.0 (optional)	
	Ethernet Switch	Broadcom BCM56842	
	PCle Switch	IDT 89H16NT16G2ZBHLG	
Switch	Multiple UART Switch	PLX OXPcLe954	
	Redundant Flash Type (NPU)	2 x NOR Flash 128MB 2 x NAND Flash 1GB (optional)	
Boot Flash	Redundant Flash Type (LMP)	2 x NOR Flash 128MB 2 x NAND Flash 1GB	
	Physical Connection	Advantech RTM interface	
Zone 3	Interface RTM	8 x SFI 4 x SerDes IPMB	
	NPU Console Debug Port	2 x RJ-45 with UART I/F	
I/O Front Interface	LMP Console Debug Port	1 x RJ-45 with UART I/F	
	LMP Management Port	1 x RJ-45 with 1000BASE-T	
	Dimensions (W x D)	6HP, 322.25 x 280.00 mm (12.69" x 11.02") (PCB size)	
Physical Characteristics	Weight	2.65 kg	
	Bootloader	U Boot	
SW Support	HW Mgmt	IPMI 1.5 / PIGMG3.0 Revision 3.0	
	Switch Mgmt	Broadcom FastPath 6.2	
	Operating System	WindRiver Linux 4.2	
Environment	Operating Environment	Temperature	Humidity
	Storage Temperatures	0 ~ 40° C	20% ~ 90 % RH
		-20 ~ 70° C	5% ~ 95 % RH
Compliance	EMC/Safety	CE/ FCC/ CB/ UL	

### Ordering Information

Part Number	Description
ATCA-7310	Dual CN6880 ATCA Node Board with 40GbE Switch