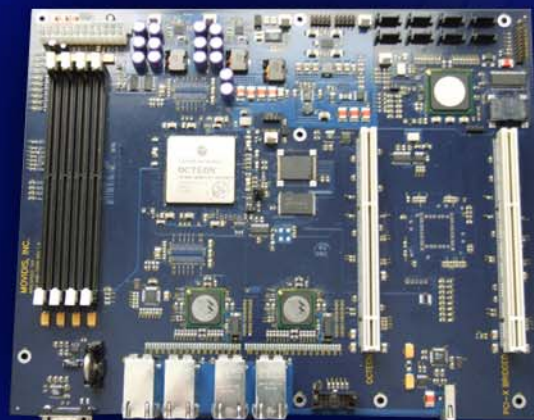


UNMATCHED POWER & AGILITY



## FEATURES

- ▶ Cavium OCTEON CN3860 16-core MIPS64 Network Services Processor 500/600MHz
- ▶ 8 - 10/100/1000 Mbps Ethernet ports
- ▶ LSI Logic LS11068 8-channel SATA-II/SAS Controller
- ▶ 4 - sockets for 144-bit registered ECC DDR2 SDRAM, max 8 GB
- ▶ 2 - 16 Mbytes boot flash
- ▶ Up to 1 GB NAND flash
- ▶ 64-bit/133 MHz PCI-X expansion slot
- ▶ USB1.1 port
- ▶ RS-232 console interface
- ▶ Low power consumption < 50 watts
- ▶ Ships with Linux installed in NAND flash
- ▶ U-Boot executive in boot flash
- ▶ Linux drivers provided for all peripherals
- ▶ Optional RLDRAM
- ▶ Optimized stacks for IPSec, SSL, TCP, and compression available from Cavium
- ▶ Complete GNU tool chains
- ▶ Industry standard ATX form factor
- ▶ Battery-backed real time clock

## Movidis x16 Network Application Platform™

### ENABLING HIGH-PERFORMANCE NETWORKING APPLIANCES

The Movidis single-board x16 Network Application Platform (NAP) enables the fast development of high performance next generation networking appliances. Based on the Cavium Networks CN3860 OCTEON™ 16-core MIPS64 processor, the Movidis x16 NAP provides OEMs with unequalled performance in a cost-effective, power-stingy design.

### POWER YOU CAN USE

With its multi-purpose, powerful design, the Movidis x16 NAP also includes integrated acceleration engines for TCP, encryption, and compression, so that most of the 9.6GHz of processing power can be freed up for your applications - like network security, encryption, load balancing, WAN optimization and caching, or network access control. The x16 NAP allows you to fully exploit the power of the OCTEON with a 133 MHz/64-bit PCI-X bus, which is connected to an 8-port SATA II/SAS controller and a full speed expansion slot. Eight 10/100/1000 Ethernet ports are provided, along with four sockets for DDR2 registered SDRAM DIMMs. All of these features, and more, fit onto an industry standard extended ATX PCB, so it can be installed in any standard 1U rack mount chassis.

## HARDWARE SPECIFICATIONS:

<b>Processor:</b>	CN3860-500/600
<b>Boot Flash:</b>	2 Mbytes organized as 1Mx16
<b>Storage Flash:</b>	128 Mbytes of NAND Flash
<b>DRAM:</b>	Four sockets for 240-pin DIMMs, up to 8 Gbytes Registered ECC DDR2
<b>Reduced Latency DRAM:</b>	Optional 4x 16Mx8
<b>Serial EEPROM (on SMB):</b>	16 Kbytes
<b>Network Interfaces:</b>	(8) 10/100/1000 Mbps Ethernet ports, full duplex on RJ45
<b>Serial Interfaces:</b>	Rear panel DB9 - TxD, RxD, CTS, RTS; Internal 4-pin header with TTL level TxD & RxD
<b>USB Interface:</b>	USB1.1 Full speed Interface (12 Mbps), on rear panel
<b>Real Time Clock:</b>	ST M41T00
<b>Expansion Slot:</b>	64-bit/133 MHz PCI-X 2.1
<b>Disk Storage:</b>	LSI Logic LSI1068 SATA II/SAS Controller, with 16 Mbytes of flash and (8) SATA connectors
<b>Board Size:</b>	13" x 12" (Extended ATX)
<b>Power Consumption (ATX Power Connector V2.0):</b>	+5VDC @ 4A +3.3VDC @ 10A
<b>Rear panel LEDs:</b>	
<b>Front Panel Interface: 20-pin header;</b>	(4) LED drivers (3) Switch sigals: WARM_RESET POWER_ON POWER_LED TEMP_FAULT* NMI 3.3V GND
<b>Cooling fan support:</b>	Seven 3-pin headers connected to +12V/GND
<b>Debug Support:</b>	14-pin EJTAG header for CN3860

## SOFTWARE:

<b>Boot Flash Executive:</b>	U-Boot, v1.1.1
<b>OS (in NAND Flash):</b>	Linux 2.6.13.5
<b>Development Tools:</b>	Complete tool chains for OCTEON-specific code and Linux applications