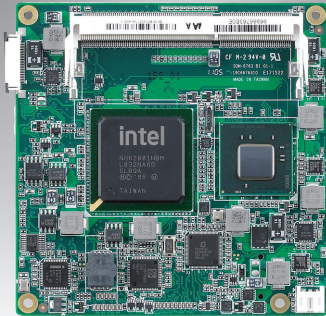


# SOM-6763 B1

## Intel® Atom™ Processor N455/D525 COM-Express Compact Module

Preliminary



### Features

- Embedded Intel® Atom™ Processor N455 SC 1.66 GHz / D525 DC 1.80 GHz + ICH8M
- Intel Gen 3.5 DX9, MPEG2 Decode in HW, supports 24-bit LVDS, VGA
- Supports 2 DDR3-667 for N455 up to 2 GB and DDR3-800 for D525 up to 4 GB SODIMMB
- Supports 5 PCIe x 1, 4 PCI masters, LPC, 3 SATAII, 8 USB 2.0, EIDE, GbE
- Supports Advantech iManager and software APIs

**Software APIs:**

- Watchdog
- IPC
- SMBus
- H/W Monitor
- GPIO

**Utilities:**

- BIOS flash
- eSOS
- Monitoring
- Flash Lock
- Embedded Security ID

### Specifications

Form Factor	COM-Express R2.0 Compact Module, Type II Pin-out.	
Processor System	CPU	Intel Atom Processor N455 1.66 GHz (single core), 512 KB L2 Cache Intel Atom Processor D525 1.80 GHz (dual core), 1 MB L2 Cache
	System Chipset	ICH8M
	BIOS	AMI 16 Mbit Flash BIOS
Memory	Technology	Supports DDR3 667 MHz (N455) and 800 MHz (D525)
	Max. Capacity	up to 2GB for N455; up to 4GB for D525
	Socket	2 x 204-pin SODIMM sockets
Display	Chipset	Intel Atom N455 or Intel Atom D525
	Graphic Engine	Intel Gen 3.5 DX9, MPEG2 Decode in HW
	LVDS	24-bit single channel LVDS
	VGA	Intel Atom N455 up to 1400 x 1050 Intel Atom D525 up to 2048 x 1536
	DVI	-
	TV Out	-
	SDVO	-
	Dual Display	CRT + LVDS
Ethernet	Chipset	Intel 82567V Gigabit Ethernet
	Speed	10/100/1000 Mbps
WatchDog Timer	65536 level timer interval, from 0-65535 sec, multi-level, multi-option watchdog timer	
Expansion	LPC, 5 PCIe x1 (1 PCIe x4), 4 PCI masters	
I/O	PATA	1 EIDE (UDMA 100)
	SATA	3 SATAII (300 MB/s)
	USB	8 USB 2.0
	Audio	High definition audio interface
	GPIO	8-bit GPIO
Power	Power Type	ATX, AT
	Power Supply Voltage	+12 V and +5 VSB for ATX, +12V for AT
	Power Consumption (Typical)	6763N TBA 6763D TBA
	Power Consumption (Max, test in HCT)	6763N TBA 6763D TBA
	Operating Temperature	0 - 60° C (32 - 140° F)
Environment	Operating Humidity 0% - 90% relative humidity, non-condensing	
Mechanical	Dimension 95 x 95 mm (3.74" x 3.74")	



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