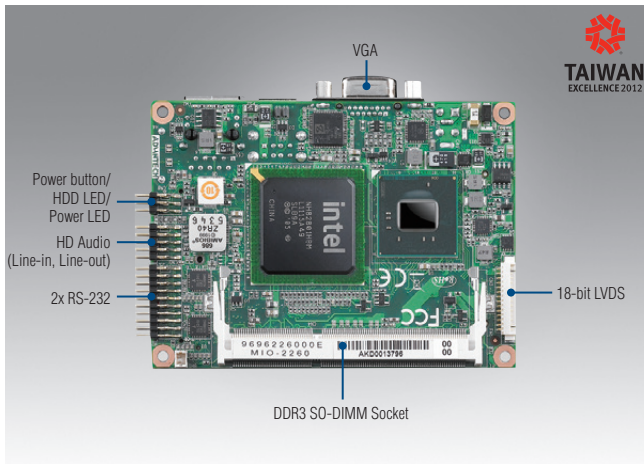


MIO-2260

Intel® Atom™ N455 Pico-ITX SBC, DDR3, 18-bit LVDS, VGA, 1 GbE, Mini PCIe, 2 USB, 2 COM, MIOe



Features

- Embedded Intel® Atom™ N455 Single-Core + ICH8M, DDR3 memory support
- Intel Gen 3.5 DX9, MPEG2 Decode in HW, Dual Independent display: 18-bit LVDS + VGA
- Supports 12 V +/- 10% input power and DC power hot plug design
- Intel GbE support, Rich I/O interface with 2 COM, 1 SATA, 2 USB 2.0, GPIO, SMBus, CF, and MIOe expansion interface
- Supports SUSIAccess and Embedded Software APIs

Software APIs:

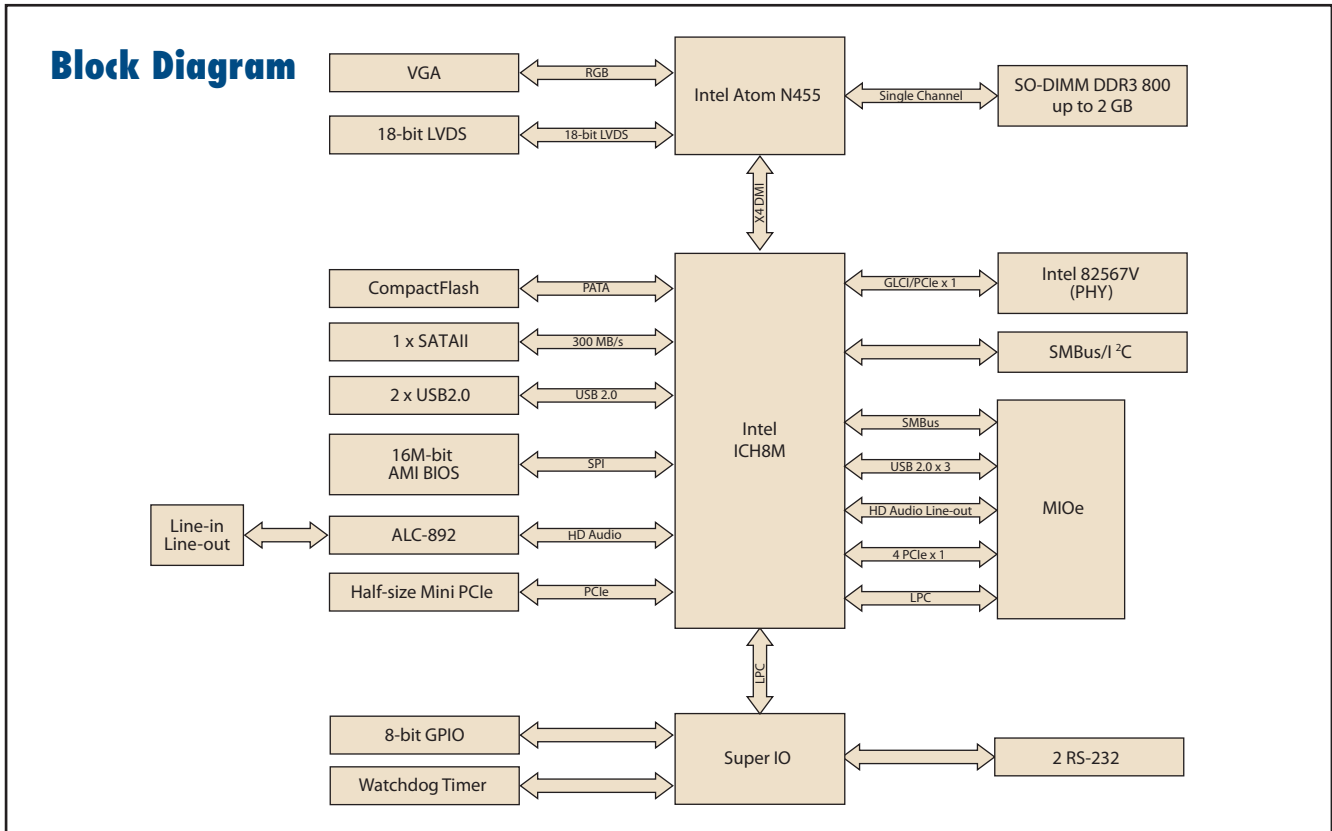


Utilities:



Specifications

Processor System	CPU	Intel Atom N455 Single-Core 1.66 GHz Processor
	Frequency	1.66 GHz
	L2 Cache	512 KB
	System Chipset	Intel N455 + ICH8M
Memory	BIOS	AMI 16 Mbit Flash BIOS
	Technology	DDR3 667 MHz
	Max. Capacity	2 GB
Display	Socket	1 x 204-pin SODIMM
	Controller	Integrated Intel GMA 3150
	VRAM	Optimized Shared Memory Architecture up to 224 MB system memory
	Graphic Engine	Intel Gen 3.5 DX9, MPEG2 Decode in HW Embedded Gen3.5+ GFX Core
	LVDS	LVDS: Single channel 18-bit LVDS up to WXGA 1366 x 768
	VGA	Intel Atom N455 Single Core up to 1400 x 1050 (SXGA)
Ethernet	Dual Display	VGA+LVDS
	Speed	10/100/1000 Mbps (Supports Wake on LAN)
	Controller	ICH8M + Intel 82567V
Audio	Connector	RJ45
	Chipset	Realtek ALC892 High Definition Audio (HD), Line-in, Line out
WatchDog Timer		Output System reset, Programmable counter from 1 ~ 255 minutes/ seconds
Storage	Compact Flash	CompactFlash TYPE I (Primary Master IDE Channel)
	SATA	1, up to 3Gb/s (300MB/s)
Rear I/O	Ethernet	1
	VGA	1
	USB	2
	DC Power Jack	1 (supported by request)
Internal I/O	Serial	2 x RS-232 (ESD protection for RS-232: Air gap ±15 kV, Contact ±8 kV)
	i°C	1 (Shares with SMBus pin, supported by request)
	SMBus	1
	GPIO	8-bit general purpose input/ output (5 V tolerance)
Expansion	Mini PCI Express	1 x Half-size
	MIOe	SMBus, 3 x USB2.0, LPC, 4 x PCIe x1, line out, +5 Vsb/+12 Vsb power, Power On, Reset
Power	Power Type	AT (Supports DC power hot plug design)
	Power Supply Voltage	Supports single 12V input (12 V +/- 10%)
	Total peripheral power supply output	5V@ 2.8A for CPU board and MIOe module totally, 12V@ 2A for MIOe module
	Power Consumption (Typical)	0.64 A, 12 V (7.68 W)
	Power Consumption (Max, test in HCT)	0.86 A, 12 V (10.32 W)
	Power Management	ACPI
Environment	Battery	Lithium 3 V/210 mAh
	Operational	0 ~ 60° C (32 ~ 140° F) (Operational humidity: 40° C @ 95% RH, Non-Condensing)
	Non-Operational	-40° C ~ 85° C and 60° C @ 95% RH, Non-Condensing
Physical Characteristics	Dimensions (L x W)	100 x 72 mm (3.9" x 2.8")
	Weight	0.42 kg (0.93 lb), weight of total package
	Total Height	33.48 mm



Ordering Information

Part No.	CPU	L2 Cache	LVDS	VGA	GbE	HD Audio	RS-232	USB 2.0	SATAII	GPIO	CF	MIOe	Mini PCIe	DC power jack	Thermal Solution	Operational Temp.
MIO-2260NF-S6A1E	Intel Atom N455 1.66 GHz	512 KB	18-bit	Yes	1	Yes	2	2	1	8-bit	1	1	Half-size	-	Passive	0 ~ 60° C

Note: Passive = fanless; Active = with fan

Packing List

Part No.	Description	Quantity
	MIO-2260 SBC	1
	Startup Manual	1
	Utility CD	1
1700006291	SATA Cable 30cm	1
1701200220	RS-232 x 2 ports 2.0 mm pitch 22 cm	1
1700019156	Audio cable 2.0 mm pitch 20 cm (line in & line out)	1
1700019656	SATA power cable 5P-1.25/5P-2.0+SATA 5P 15 cm	1
9666226000E	Screw and stud pack (1 screw for Mini PCIe, 4 M3 studs and screws for heatsink)	1
1960053175T001	Passive heatsink 99.5 x 70.5 x 15.7 mm	

Optional Accessories

Part No.	Description
1960053176T001	Heat spreader for MIO-2260 99.5 x 70.5 x 11.2 mm

Embedded OS/API

Embedded OS/API	Part No.	Description
Windows Embedded Standard	2070010314	WES2009 V4.0 24MUI
	2070010313	WES2009 V4.0 ENG
	2070011287	WEC7 for MIO-2260
WinCE	2070010331	CE6.0 R3 Pro V6.0.0 ENG (3COM)
Windows Embedded Standard 7	2070009835	Image WES7E Intel Lunar V5.0 ENG
		QNX
Vxwork		6.8
Linux		Ubuntu 10.04
Software API		SUSI V3.0

Rear I/O View





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