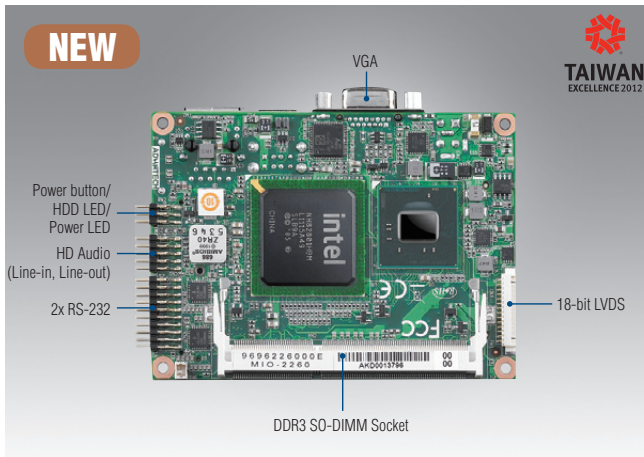


MIO-2260

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
- 1 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:

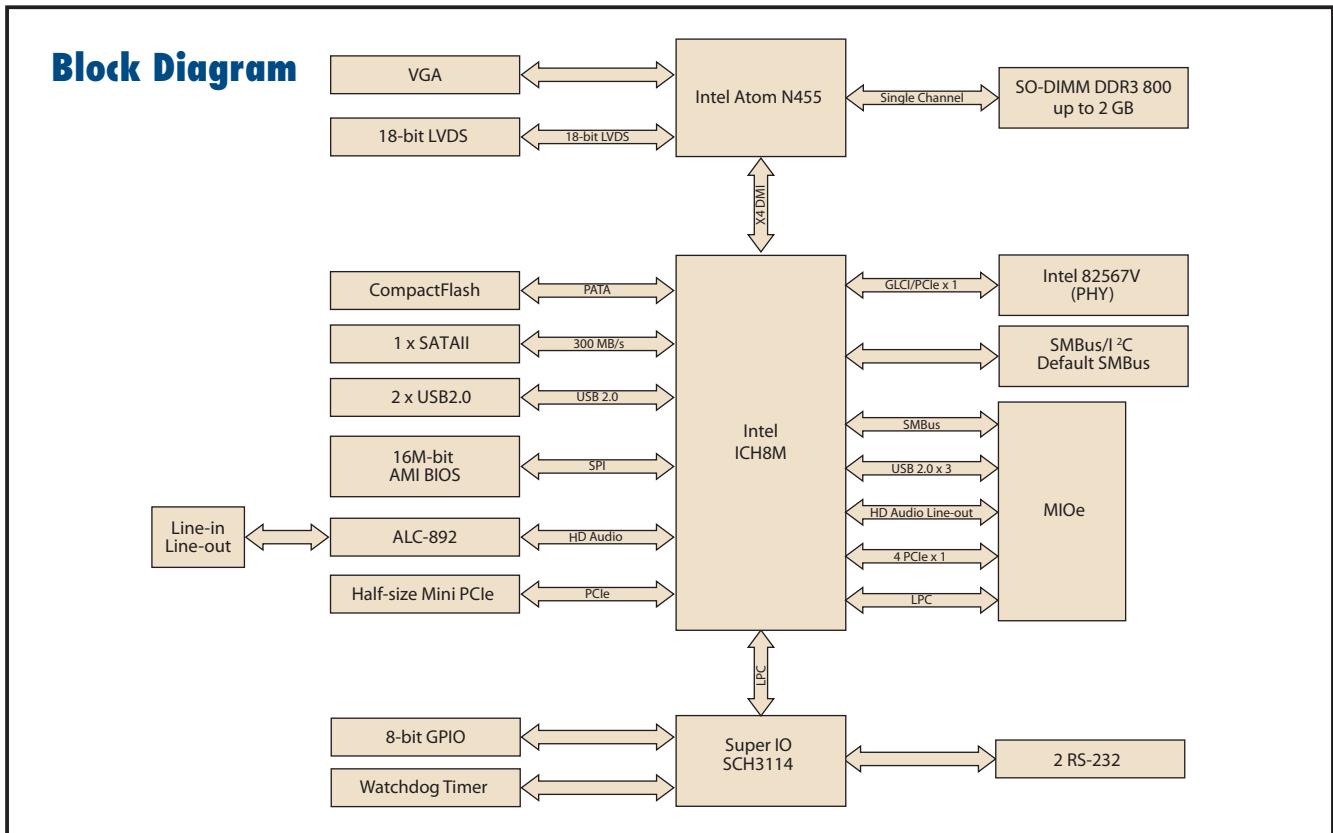


Utilities:



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 |
| | BIOS | AMI 16 Mbit Flash BIOS |
| Memory | Technology | DDR3 667 MHz |
| | Max. Capacity | 2 GB |
| | Socket | 1 x 204-pin SODIMM |
| Display | Chipset | Intel Atom Processor N455 1.66GHz |
| | 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) |
| | Dual Display | VGA+LVDS |
| Ethernet | Speed | 10/100/1000 Mbps (Supports Wake on LAN) |
| | Controller | ICH8M + Intel 82567V |
| | Connector | RJ45 |
| Audio | 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 II (Primary Master IDE Channel) |
| | SATA | 1 SATA II (Max. Data Transfer Rate 300 MB/s) |
| Rear I/O | Serial | - |
| | Ethernet | 1 (10/100/1000Mbps) |
| | 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 ² C | 1 (Shares with SMBus pin, supported by request) |
| | SMBus | 1 |
| | GPIO | 8-bit GPIO (5 V tolerance) |
| Expansion | Mini PCI Express | 1 (half size) |
| | MIOe | 1 (SMBus, 3 x USB 2.0, 4 x PCIe1, LPC, HD Audio line-out, 5 Vsb/12 Vsb power) |
| 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 | APM, ACPI |
| | Battery | Lithium 3 V/210 mAH |
| Environment | 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 | |
| | Startup Manual | |
| | Utility CD | |
| 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 |
|-----------------|------------|----------------------------------|
| Win XPE | 2070010314 | XPE WES2009 V4.0 24MUI |
| | 2070010313 | XPE WES2009 V4.0 ENG |
| WinCE | 2070010331 | CE6.0 R3 Pro V6.0.0 ENG (3COM) |
| WES 7 | 2070009835 | Image WES7E Intel Lunar V5.0 ENG |
| QNX | | 6.5/ 6.4/ 6.3 |
| Vxwork | | 6.8 |
| Linux | | Ubuntu 10.04 |
| Software API | | SUSI V3.0 |

Rear I/O View



MIO-2260NF-S6A1E



MIO-2260NF-S6A1E w/ DC Jack (supported by request)