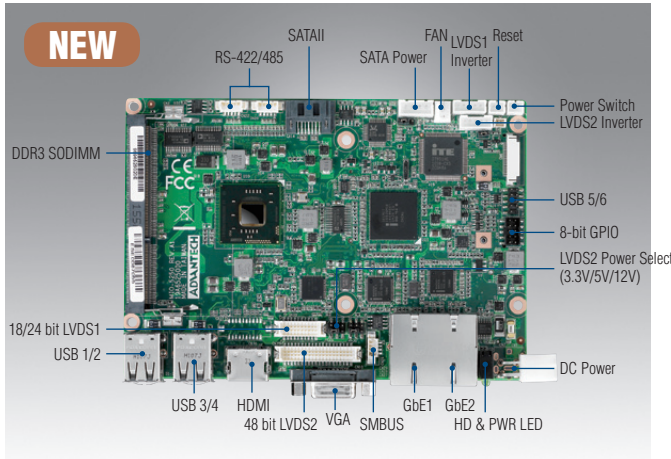


# MIO-5250

Intel® Atom™ N2600/ D2550, 3.5" MI/O-Compact SBC, DDR3, HDMI, Dual LVDS, VGA, 2 GbE, CFast, iManager, MIOe



iManager susiAccess CE FCC

## Features

- Embedded Intel® Atom™ N2600/ D2550 dual core processor + Intel NM10, 1 x DDR3 memory support up to 4 GB
- DirectX® 9, multiple display: 18/24-bit LVDS1, 48-bit LVDS2, HDMI, VGA
- Flexible design using integrated multiple I/O: MIOe to approach vertical applications & keep domain knowhow.
- 2 GbE support, HD Audio, Rich I/O interface with 4 COM, 1 SATA, I<sup>2</sup>C or SMBus, 8-bit GPIO, PCIe Mini Card & CFast
- Supports iManager, SUSIAccess and Embedded Software APIs

### Software APIs:



### Utilities:



## Specifications

Processor System	CPU	Intel Atom Dual Core processor N2600 1.6GHz/ D2550 1.86GHz
	Frequency	Dual Core 1.6GHz/ 1.86GHz
	L2 Cache	1MB
	System Chipset	Intel Atom N2600/ D2550 + Intel NM10
Memory	BIOS	AMI EFI 16Mbit
	Technology	DDR3 1066MHz (D2550), DDR3-800 (N2600)
	Max. Capacity	4 GB
Display	Socket	1 x 204-pin SODIMM
	Chipset	Intel Atom N2600/ D2550
	Graphic Engine	DirectX 9 and OpenGL3.0 support Hardware decode H/W acceleration: MPEG2 H/W Decode/Acceleration: H.264/ VC1/ WMV9
	LVDS	18/24-bit LVDS1: up to 1366 x 768 (N2600), 1440 x 900 (D2550) 48-bit LVDS2: 2560 x 1600 (only for MIO-5250D-S8A1E)
	VGA	Up to 1920 x 1200
	HDMI	Supports 1920 x 1200, Max data rate: up to 1.65 Gb/s, Supports HDMI v1.3 Up to 1080p support
Ethernet	Dual Display	Yes (VGA + LVDS1 or VGA + HDMI or HDMI + LVDS1 or LVDS1 + LVDS2)
	Speed	10/100/1000Mbps
	Controller	GbE1: Intel 82583V 10/100/1000Mbps, GbE2: Intel 82583V 10/100/1000Mbps
Audio	Connector	2 RJ45 on Rear I/O
	Chipset	Realtek ALC892, High Definition Audio (HD), Line-in, Line out, Mic-in
Storage	Amplifier	Optional via MIOe
	WatchDog Timer	255 levels timer interval, programmable by software
	CFast	1
Rear I/O	mSATA	(Supports either mSATA or full size miniPCIe, selected by BIOS, default support miniPCIe)
	SATA	1 x SATA II (Max. Data Transfer Rate 300 MB/s)
	Ethernet	2 (10/100/1000Mbps)
	VGA	1
	HDMI	1
Internal I/O	USB	4 x USB 2.0
	LED	Power, HDD
	DC Jack	1 (MIO-5250N-S6A1E)
	USB	2 x USB 2.0
	Serial	2 RS-232 from COM1/4, 2 RS-232/422/485 support auto flow control from COM2/3 (ESD protection for RS-232: Air gap ±15kV, Contact ±8kV)
	I <sup>2</sup> C	1 (Shares with SMBus pin)
Expansion	SMBus	1 (Shares with I <sup>2</sup> C pin)
	GPIO	8-bit general purpose input/output
	Full-size MiniPCIe/ mSATA	1 with SIM Holder, supports mSATA via BIOS select
	MIOe	SMBus, 3 x USB2.0, LPC, 1 x PCIe, line out, 5 Vsb/12 Vsb power, ACPI S3/S5, Displayport (optional)
Power	Power Type	Single 12V DC power input
	Power Supply Voltage	Supports single 12V input, ± 10%
	Power Consumption (Typical)	MIO-5250N-S6A1E: 0.606 A @ 12 V (7.27 W) MIO-5250D-S8A1E: 0.829 A @ 12 V (9.95 W)
	Power Consumption (Max, test in HCT)	MIO-5250N-S6A1E: 0.729 A @ 12 V (8.75 W) MIO-5250D-S8A1E: 1.029 A @ 12 V (12.35 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)
Physical Characteristics	Non-Operational	-40° C ~ 85° C and 60° C @ 95% RH Non-Condensing
	Dimensions (L x W)	146 x 102 mm (5.7" x 4"), same as 3.5"
	Weight	0.78 kg (1.72 lb), weight of total package
	Total Height	30.6 mm

