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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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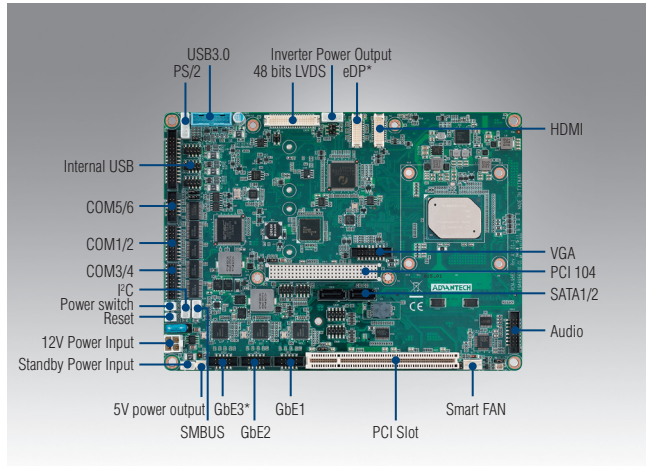
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PCM-9563

Intel® Pentium N4200 Celeron N3350 & Atom™E3950/E3940/E3930 EBX with VGA/LVDS/HDMI*, 3 GbE, 8 USB, 1 SATA, Audio, 1 Mini PCIe, 1 M.2 E key, 1 m.SATA, 6 COMs



Features

- Embedded Intel® Pentium N4200 & Celeron N3350, Atom™E3950, E3940, E3930, DDR3L 1867 MHz, up to 8GB
- DirectX11, OpenGL3.2, OpenCL1.2, multi-display: VGA+LVDS/eDP+ HDMI*/DP*
- Supports up to 3 Intel GbE, 6 COM, 1 Mini PCIe, 1 M.2 E-key, 1 mSATA, PCI-104 and 1 PCI Slot
- High transfer speed COM port design (Transfer rate up to 1 Mbit/s)
- Design complies with CE/FCC
- Supports iManager, WISE-PaaS/RMM, Embedded Software APIs

Software APIs:



Utilities:

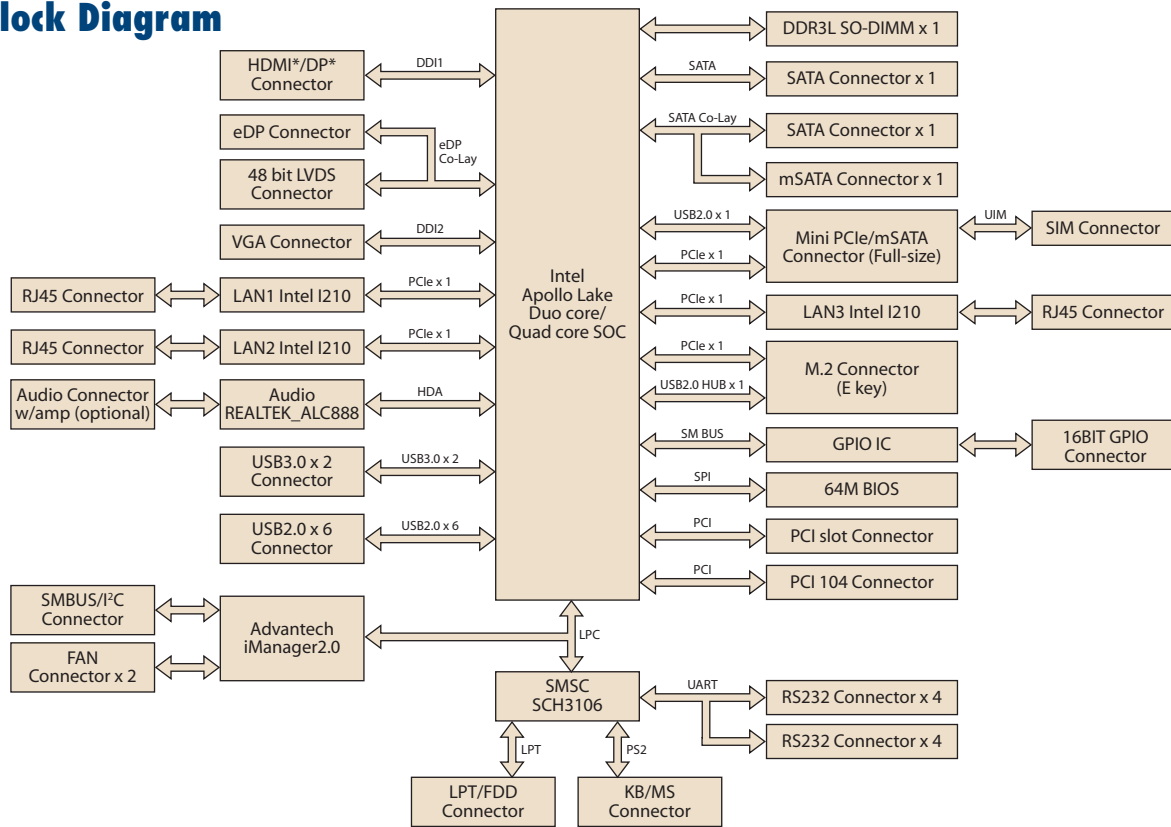


Specifications

Processor System	CPU	Intel Pentium N4200 Celeron N3350 & Atom™E3950/E3940/E3930
	Core	4/2/4/2
	Frequency	1.1/1.1/1.6/1.6/1.3
	L2 Cache	2MB
Memory	BIOS	AMI 64 Mbit
	Technology	DDR3L 1867MHz
	Max. Capacity	8 GB
Display	Socket	1 x 204 pin SODIMM
	VRAM	Optimized Shared Memory Architecture up to 224 MB
	Graphics Engine	Gen-9Low Power; 18 Execution Units54K Codec Decode& Encode for HEVC4, H.264, VP8, SVC, MVC
	HDMI	1.4b(1920x1200@30Hz)
	DP	1.2a (1920x1200@60Hz)
	eDP	v1.4 (1920x1200@ 60Hz)
	LVDS	Single channel 48-bit LVDS up to 1920 x 1200
Ethernet	VGA	Maximum Resolution up to 1920 x 1200
	Multi Display	VGA+ LVDS/eDP*+ HDMI*/DP*
	Interface	Up to 3 (the 3th GbE by request)
Audio	Controller	Intel I210
	Connector	Box header
WatchDog Timer	Chipset	ALC888 HD Codec, Speaker out, CD-input, Line-out, Line-in, Mic-in
	Amplifier	Max 2.2W/ch Stereo into a 3Ω Load
Storage	Output	System reset
	Internal	Watchdog timer: monitor the system status before OS is ready (programmable 10ms, disable, 1s, 60s)
	mSATA	1 x full size mSATA
	SATA	2* SATAIII (Max. Data Transfer Rate up to 6.0 Gb/s)
	Floppy	Share with LPT (Optional)
Internal I/O	SPI Flash	64 Mbit
	HDMI	(Support by request)
	DP	(Support by request)
	LVDS	1 x 48bit LVDS
	Serial	4 x RS-232 (Transfer rate up to 1 Mbit/s) 2 x RS-422/485
	Ethernet	Up to 3 GbE (the 3th GbE by request)
	PS/2 KB/Mouse	1
	VGA	1
	eDP	(Support by request)
	Reset Button	1
	USB	6 x USB2.0 + 2 x USB3.0
	Parallel (LPT)	1
	GPIO	16-bit GPIO
Expansion	SMBUS	1
	I²C	1
	PCI-104	1
	Full-size Mini PCIe with SIM card holder	1
	PCI Slot	1
	mSATA	1
Power	M.2 E key	1
	Power Type	AT / ATX (Both AT/ATX can support ACPI)
	Power Supply Voltage	ATX: 12V ±10%, 5VSB ±5% AT: 12V ±10% only
	Power Consumption (Typical)	PCM-9563N-S2A1E with N4200: 0.44 @ 12V (5.28W) PCM-9563N-S1A1E with N3350: 0.48 @ 12V (5.76W)
Environment	Power Consumption (Max, test in HCT)	PCM-9563N-S2A1E: 1.32 @ 12V (15.84W) PCM-9563N-S1A1E: 1.36 @ 12V (16.32W)
	Operating	0 ~ 60° C (32 ~ 140° F) (Operating humidity: 40° C @ 95% RH non-condensing)
Physical Characteristics	Non-Operating	-40° C ~ -85° C and 60° C @ 95% RH non-condensing
	Dimensions (L x W)	203 x 146 mm (8" x 5.75")
	Weight	0.7 kg (1.54 lb) (with heatsink)
	Total Height (with cooler + PCB + Bottom)	29mm

*It will not be supported in default, please contact to Advantech if this function is needed.

Block Diagram



Ordering Information

Model Name	CPU	Memory	VGA	LVDS	HDMI*	DP*	eDP*	GbE 1	SATAIII	mSATA	HD Audio	RS-422/485	RS-232	USB3.0	USB2.0	miniPCIe	M.2 E key	PCI-104
PCM-9563N-S1A1E	Intel Celeron N3350	SODIMM	1	1	-	-	-	2	1	1	V	2	4	2	6	1	1	Yes
PCM-9563NF-S2A1E	Intel Pentium N4200	SODIMM	1	1	-	-	-	3	2	-	V	2	4	2	6	1	1	Yes
PCM-9563NF-S1A1E	Intel Celeron N3350	SODIMM	1	1	-	-	-	3	2	-	V	2	4	2	6	1	1	Yes

* Support by request

Packing List

Part No.	Description	Quantity
	PCM-9563 SBC	1
9689000002	Mini Jumper Pack	1
2006956300	Startup Manual	1
1960074974N001	Heatsink for PCM-9563	1

Optional Accessories

Part No.	Description
PCM-10586-9563	Wiring kit for PCM-9563
1703100260	USB cable
170304015K	AT cable 4P x 2/4200-H-4P 15 cm
TBD	Heatspreader

Embedded OS/API

Embedded OS/API	Part No.	Description
Win 10	2070015275	Win10 64 bit
QNX		
VxWorks		
Linux		
Software API	TBD	