



OUR GLOBAL
COMPETENCE
CENTRES

 APOLLO DISPLAY
TECHNOLOGIES



 DISTEC



 DISPLAY
TECHNOLOGY

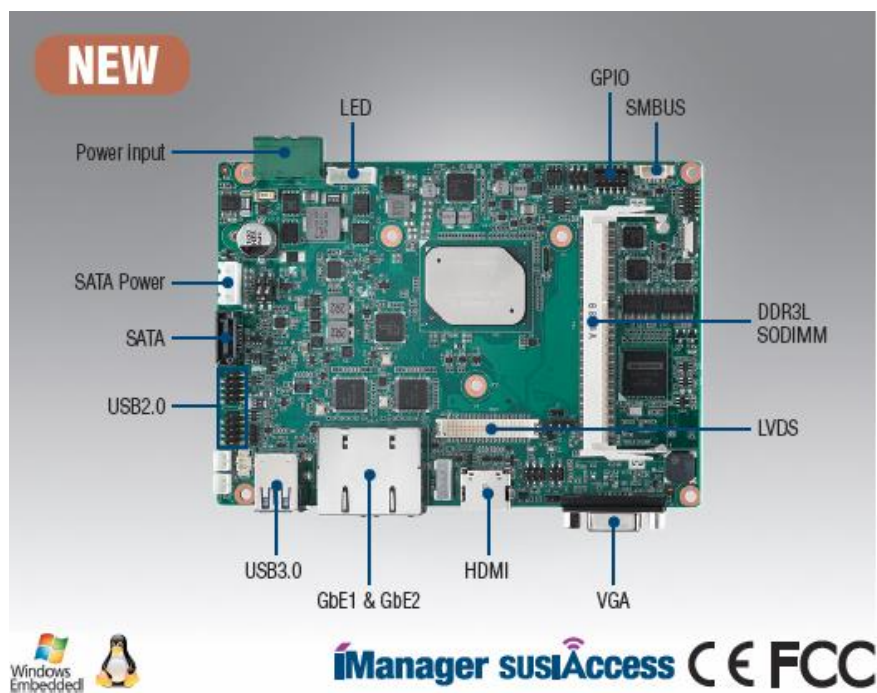


Datasheet

ADVANTECH

PCM-9366

3,5" with Intel® Apollo Lake Pentium N4200, Celeron N3350 and Atom™ E3950/E3940/E3930 Processor

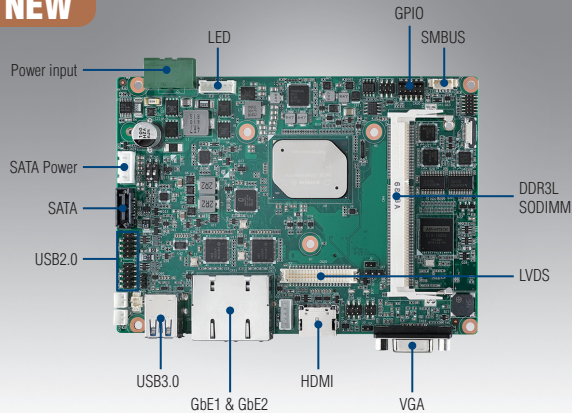


The information contained in this document has been carefully researched and is, to the best of our knowledge, accurate. However, we assume no liability for any product failures or damages, immediate or consequential, resulting from the use of the information provided herein. Our products are not intended for use in systems in which failures of product could result in personal injury. All trademarks mentioned herein are property of their respective owners. All specifications are subject to change without notice.

PCM-9366

Intel® Pentium N4200 Celeron N3350 & Atom™ E3950/E3940/E3930, DDR3L, HDMI, VGA, 48-bit LVDS/*eDP, 2GbE, M.2 Key E, Mini PCIe/mSATA, M.2 Key E, wide range power input, iManager

NEW



iManager susiAccess CE FCC

Features

- Intel® Pentium N4200 Celeron N3350 & Atom™ E3950/E3940/E3930, 1 x DDR3L-1600/1333 SODIMM support up to 8 GB
- DirectX11, OpenGL3.2, OpenCL1.2, multi-display: VGA+LVDS/eDP+ HDMI/DP*
- Support 9-36V wide range power input
- 2 GbE, rich I/O: 4COM, SATA, USB3.0, SMBus/I²C, 2 8bit GPIO, 2 CANBUS, M.2 key E, full-size mSATA
- Supports iManager, SUSIAccess and Embedded Software APIs

Software APIs:



Utilities:

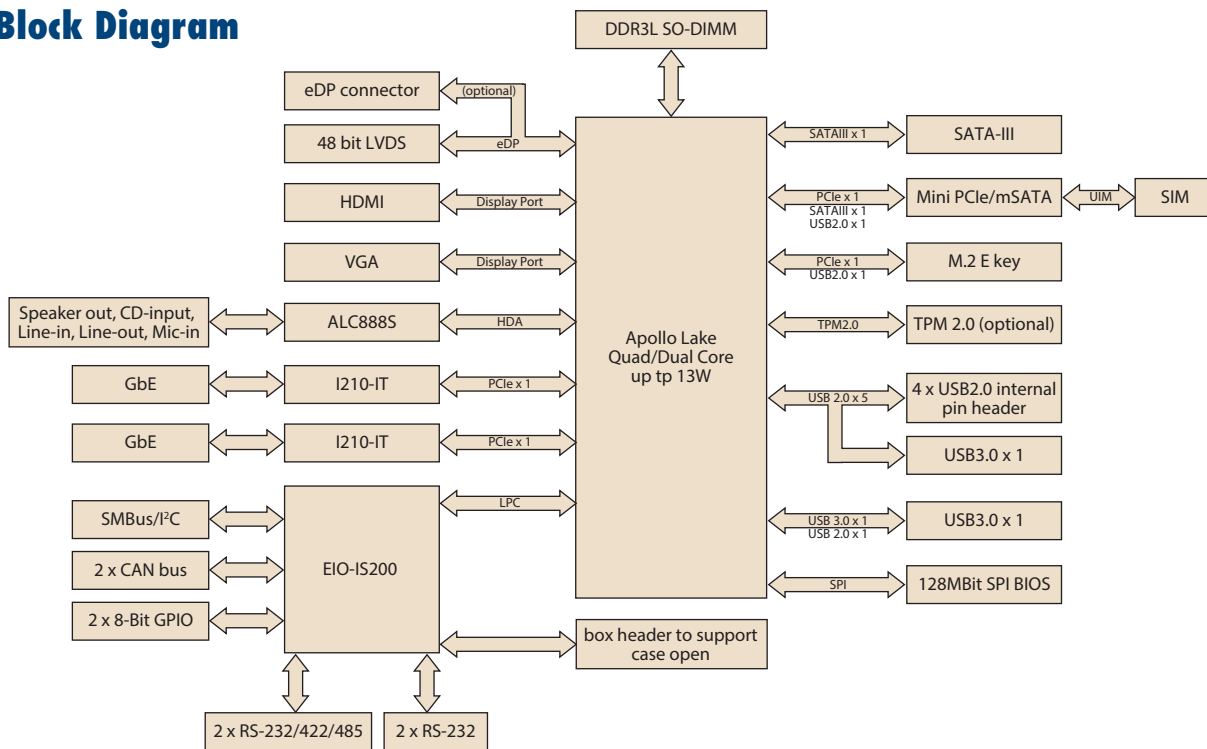


Specifications

Processor System	CPU	Intel Pentium 4200	Intel Celeron N3350	Intel Atom E3950	Intel Atom E3940	Intel Atom E3930
	Base Frequency	1.1 (Quad-Core)	1.1 (Dual-Core)	1.6 (Quad-Core)	1.6 (Quad-Core)	1.3 (Dual-Core)
	Max Turbo Frequency	2.5 GHz	2 GHz	1.8 GHz	1.8 GHz	1.8 GHz
	L2 Cache	2MB	2MB	2MB	2MB	2MB
Memory	BIOS	AMI UEFI BIOS at 64 Mb				
	Technology	DDR3L 1867 MHz				
Display	Max. Capacity	8 GB				
	Socket	1 x 204-pin SODIMM				
Ethernet	Controller	Intel Gen9 graphic engine				
	Processor Graphics	DirectX11, OpenGL3.2, OpenCL1.2 Full HW acceleration, decode: H.264, MPEG2/4, VC-1, WMV9. Encode: H.264, MPEG2				
	VGA	2560 x 1600 at 60Hz				
	LVDS	48-bit dual LVDS up to WUXGA 1920 x 1200 at 60Hz Supports 3.3/5/12V for VDD power, 1A@5V/12V for inverter				
	HDMI	HDMI 1.4a for HD video playback, 1080P at 60Hz				
Audio	Multit-Display	VGA + HDMI+ LVDS/eDP*				
	Speed	10/100/1000Mbps				
WatchDog Timer	Controller	Intel i210				
	Connector	2 RJ45				
Storage	Codec	Realtek ALC888S, High Definition Audio (HD), Line-in, Line out, Mic-in				
	SATA	Output System reset, Programmable counter from 1 ~ 255 minutes/ seconds				
Rear I/O	mSATA	1, up to 6Gb/s (600MB/s)				
	Ethernet	1 x Full-size				
	VGA	2 (10/100/1000Mbps)				
	HDMI	1				
Internal I/O	HDMI	1				
	USB 3.0	2				
	Serial	RS232 x 2 (COM1/COM2), RS232/422/485 x 2 (COM3/COM4) with auto flow control (ESD protection: air gap ±15kV, contact ±8kV)				
	USB2.0	4				
	I ² C	1 (Shared with SMBus pin)				
Expansion	SMBus	1				
	GPIO	2 x 8-bit				
Power	Mini PCIe	1 x Full size*				
	M.2	1 x M.2 Key E				
Environment	Power Type	9-36V DC power input				
	Power Consumption (Typical)	TBD				
	Power Consumption (Max, test in HCT)	TBD				
	Power Management	ACPI				
Physical Characteristics	Battery	Lithium 3 V / 210 mAh				
	Operational	0 ~ 60° C with 0.7m/s air flow (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	0.54kg (1.19lb), weight of total package				
	Height	Top Side: 19.5 mm; Bottom Side: 7.8 mm; PCB: 1.6 mm				

* The specification is supported by request

Block Diagram



Note1: Supported by request

Ordering Information

Part No.	CPU	Memory	HDMI	LVDS	VGA	GbE	Audio	RS-232/422/485	RS-232	USB 3.0	USB 2.0	SATA III	M.2 Key E	Mini PCIe	mSATA	CANBUS	Power connector	Thermal Solution*	Operating Temp.
PCM-9366N-S2A1E	Intel N4200	SODIMM	1	48-bit	Yes	2	Yes	2	2	4	4	1	1	Full-size	Full-size	2	2P Phoenix power connector	Passive	0 - 60° C
PCM-9366N-S1A1E	Intel N3350	SODIMM	1	48-bit	Yes	2	Yes	2	2	2	4	1	1	Full-size	Full-size	2	2P Phoenix power connector	Passive	0 - 60° C

Note: Passive=fanless; Active=with fan

Packing List

Part No.	Description	Quantity
	PCM-9366 SBC	1
2006936600	Startup Manual	1
1701200220	RS-232 COM cable, F Cable 2*10P-2.0/D-SUB 9P(M)*2 22CM	2
1700018785	SATA 35cm power cable	1
1700018730	USB Cable 2*5P-2.0/USB-A(F)*2 25CM F/9	2
1700008941	M Cable SATA 7P/SATA 7P 32CM C=R 180/180D W/Lock	1
1700019584	Audio Cable 2*5P-2.0/JACK*3 20cm	1
	mini Jumper pack	1

Optional Accessories

Part No.	Description
1960078737T011	HS for APOLLLOLAKE-I E39XX series, 0-60° C

Embedded OS/API

Embedded OS/API	Part No.	Description
WIN10	20706WX9ES0069	img W10 19EL PCM-9366 64b 1809 ENU

Rear I/O View



Our company network supports you worldwide with offices in Germany, Austria, Switzerland, the UK and the USA. For more information please contact:

Headquarters

Germany



FORTEC Elektronik AG

Augsburger Str. 2b
82110 Germering

Phone: +49 89 894450-0
E-Mail: info@forteca.de
Internet: www.forteca.de

Fortec Group Members

Austria



Distec GmbH Office Vienna

Nuschinggasse 12
1230 Wien

Phone: +43 1 8673492-0
E-Mail: info@distec.de
Internet: www.distec.de

Germany



Distec GmbH

Augsburger Str. 2b
82110 Germering

Phone: +49 89 894363-0
E-Mail: info@distec.de
Internet: www.distec.de

Switzerland



ALTRAC AG

Bahnhofstraße 3
5436 Würenlos

Phone: +41 44 7446111
E-Mail: info@altrac.ch
Internet: www.altrac.ch

United Kingdom



Display Technology Ltd.

Osprey House, 1 Osprey Court
Hichingbrooke Business Park
Huntingdon, Cambridgeshire, PE29 6FN

Phone: +44 1480 411600
E-Mail: info@displaytechnology.co.uk
Internet: www.displaytechnology.co.uk

USA



Apollo Display Technologies, Corp.

87 Raynor Avenue,
Unit 1 Ronkonkoma,
NY 11779

Phone: +1 631 5804360
E-Mail: info@apolloDisplays.com
Internet: www.apolloDisplays.com