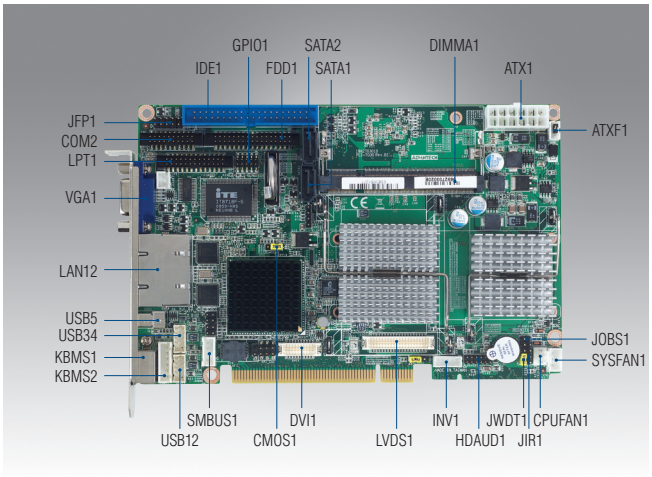
PCI-7030

Intel® Atom™ N270 PCI Half-size SBC with Dual GbE LAN/LVDS/DVI/SATA/6 COM



Features

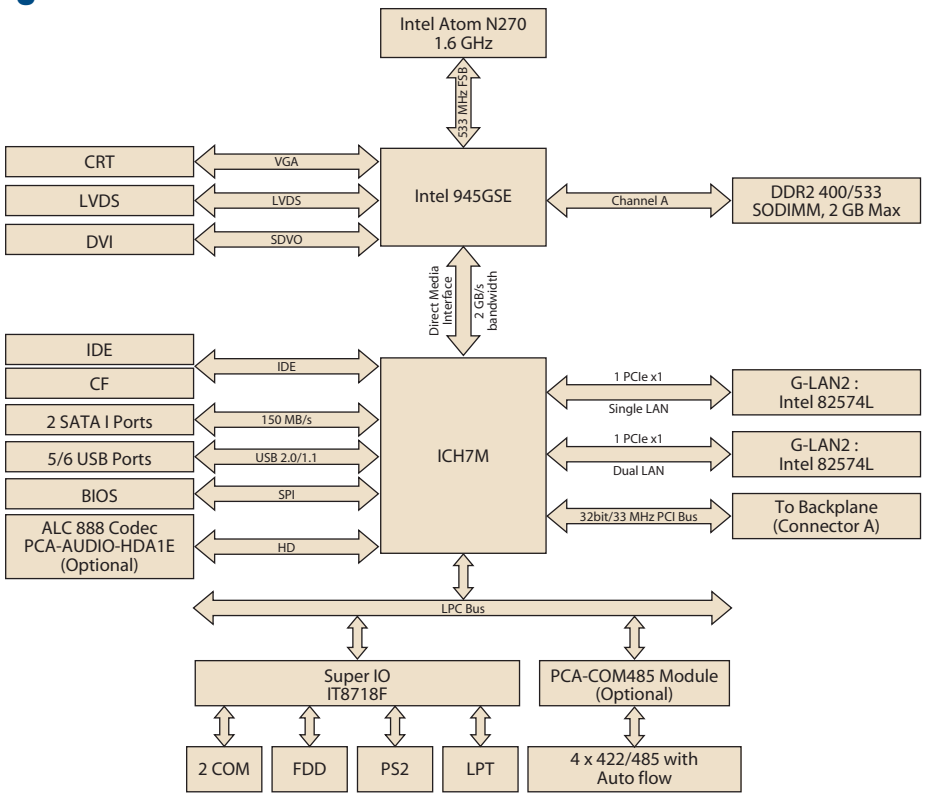
- Ultra Low power Fanless Intel® Atom™ processor N270 1.6 GHz
- One/Dual Gigabit Ethernet
- Supports up to 6 COM (Optional module 4 x RS-485 w/auto-flow control by PCA-COM485 module)
- 1600 x 1200 @ 18/36-bit LVDS, DVI support

Specifications

Processor System	CPU	Intel Atom N270 processor 1.6 GHz
	FSB	400/533
	L2 Cache	512 KB cache
	Chipset	Intel 945GSE + Intel ICH7M
	BIOS	Award SPI 8 MB
Bus	PCI	32-bit/ 33 MHz
Memory	Technology	Single Channel DDR2 SODIMM 400/533 MHz
	Max. Capacity	2 GB
	Socket	Yes
Graphics	Controller	Intel 945GSE integrated VGA mode: Supports up to QXGA 2048 x 1536 pixels with 32-bit color @ 75 Hz
	VRAM	Shared system memory up to 224 MB (DVMT 3.0)
	LVDS	Supports 18/36-bit up to UXGA 1600 x 1200
	DVI	Maximum pixel lock of 400 MHz up to 1600 x 1200 pixels and 1920 x 1200 (reduced blanking) resolutions @ 75 Hz
	Dual Display	VGA, LVDS, DVI
Ethernet	Interface	10/100/1000 Mbps Ethernet
	Controller	Intel 82574L
	Connector	RJ-45 x 1 for VG ; RJ-45 x 2 for G2
EIDE	Mode	Ultra ATA 100/66/33
	Channel	1
SATA (150 MB/s)	Port	2 for SATA1, 150 MB/s
I/O Interface	USB	6 USB2.0 for VG; 5 USB2.0 for G2 480 Mbps; 4 ports onboard and 2 for VG/1 for G2 ports on rear I/O
	Serial	6 COM (2 x RS-232 onboard; Optional: 4 x RS-422/485 w/auto-flow by PCA-COM485 module)
	Parallel	1 (via super I/O)
	FDD	1
	GPIO	8-bit ; CMOS Level (0 ~ 5 V)
	PS/2	6-pin DIN socket on bracket for PS/2 keyboard and mouse (via super I/O) 6-pin (2.54 mm) wafer box connector for keyboard only
Watchdog Timer	Output	System reset
	Interval	1 min/sec or Max 65535 min/sec
Miscellaneous	Audio Output	Intel High Definition audio interface (requires an audio extension module P/N: PCA-AUDIO-HDA1E)
	Solid State Disk	CompactFlash socket (Type I/II), shared with secondary IDE
Power Requirement	CPU/RAM	Atom 1.6G + DDR2 2G (533)
	Voltage	+12 V (0.31 A) +5 V (2.19 A) +3.3 V (0A) +5 VSB (0.04A) +2 V (0A)
Environment		Operating / Non-Operating (Storage)
	Temperature	0 ~ 60° C (32 ~ 140° F) (operating humidity: 40° C @ 85% RH Non-Condensing) / -40° C ~ 85° C and 60° C @ 95% RH Non-Condensing
Physical	Dimensions	185 mm (L) x 122 mm (W) (7.3" x 4.8")

All product specifications are subject to change without notice

Board Diagram



Ordering Information

P/N	VGA	LVDS	DVI	USB	LAN	COM
PCI-7030VG-00A1E	Yes	Yes	-	6	1 (82574L)	2
PCI-7030G2-00A1E	Yes	Yes	Yes	5	2 (82574L)	2

Optional Accessories

Part Number	Description
MBPC-641BP-60E	4-slot chassis w/150 W power supply
IPC-6806SB-15ZBE	6-slot chassis w/150 W power supply
PCA-AUDIO-HDA1E	HD audio-card
PCA-SATAP2-00A1E	IDE/SATA adapter for CPU cards
1701140201	COM port cable without bracket
PCA-COM485-00A1E	4 x 422/485 COM module
PCA-COM232-00A1E	4 x 232 COM module

Packing List

Part Number	Description	Quantity
1700060202	Y-cable for PS/2 keyboard, PS/2 mouse	x 1
1701340603	FDD cable (600 mm)	x 1
1700000265	Power cable	x 1
1700002343	ATX feature cable	x 1
1703150102	Serial ATA HDD power cable	x 1
1700003194	Serial ATA HDD data cable	x 1
1701400452	EIDE (HDD) cable	x 1
1700002223	Parallel port cable (2.0 mm w/BKT)	x 1
1700008887	USB cable with 4 ports (2.0 mm pitch)	x 1
1700008762	Dual-COM port cable kit for COM1-2	x 1
9689000002	Jumper pack	x 1

Bracket View



PCI-7030G2-00A1E