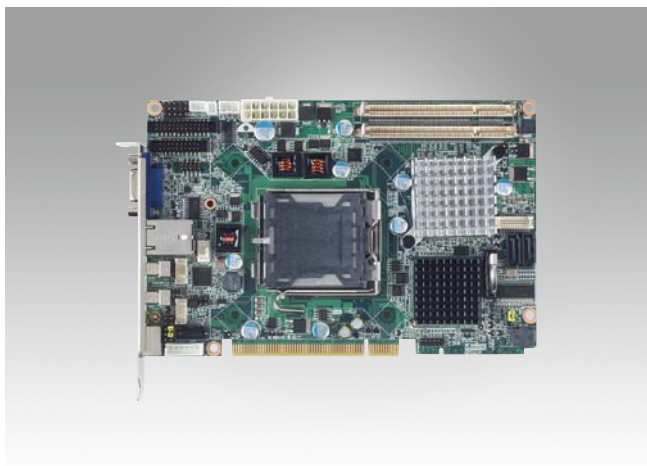


PCI-7020

LGA775 Intel® Core™2 Duo PCI Half-size SBC with VGA/GbE LAN/SATA and SSD



Features

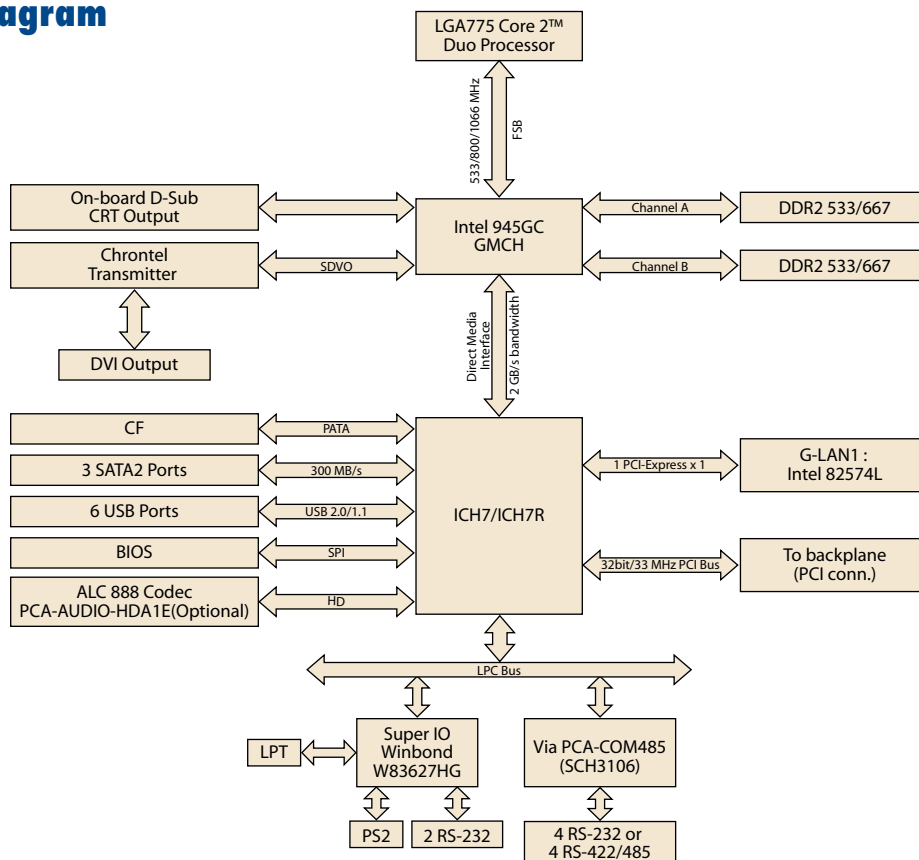
- Supports LGA 775 Intel® Core™2 Duo FSB 1066 MHz processors
- Supports dual channel DDR2 667 SDRAM up to 4 GB
- Supports 6 USB 2.0 ports
- Supports GbE LANs via PCIe x1 Lanes
- Supports up to 6 COM, 4 x RS-485 w/Auto-Flow control or 4 x RS-232 by COM Module



Specifications

Processor System	CPU	Core 2 Duo	
	FSB	1066 MHz	
	Max Speed	2.8 GHz	
	L2 Cache	4 MB	
	Chipset	Intel 945GC + ICH7	
	BIOS	AWARD 8 Mbit FWH	
Bus	Front Side Bus	533/667/800/1066	
	PCI	32-bit/33 MHz	
Memory	Technology	Dual-channel DDR2 533/667 MHz SDRAM SODIMM	
	Max. Cap.	4 GB	
	Socket	200-pin SODIMM x 2	
Graphics	Controller	Chipset integrated VGA controller VGA Mode: Up to 2048 x 1536 @ 75 Hz refresh	
	Integrated	Up to 2048 x 1536 @ 75 Hz refresh	
	VRAM	Shared with 256 MB system memory	
	DVI (optional)	Maximum pixel clock of 400 MHz up to 2048 x 1536 resolutions @ 75 Hz	
Ethernet	Interface	10/100/1000 Mbps	
	Controller	Intel 82574L x 1	
	Connector	RJ-45 with LED Connector x 1	
SATA	Bandwidth	300 MB	
	Channel	3	
EIDE	Mode	-	
	Channel	-	
I/O Interface	USB 2.0	6 ports (USB 2.0 compliant, 2 ports on rear I/O, 4 ports onboard by 2.0 mm pitch box header)	
	Serial	6 COM (2 x RS-232 onboard, 4 x RS-422/485 w/Auto-flow by PCA-COM485 module ; 4 x RS-232 by PCA-COM232 module)	
	Parallel	1 (EPP/ECP), 2.0 mm pitch pin header	
	PS/2	1 (for mouse and keyboard, a Y-cable is included in the package)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable 1, 2, 4, 8, ..., 256 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)	
Power Requirement	CPU/RAM	Core 2 Duo E7400 2.80 GHz + DDR2800 2 GB	
	Max	+12 V (4.38 A) +5 V (4.86 A) 5 VSB (0.39 A)	
Environment	Temperature	Operating	Non-Operating (Storage)
		0 ~ 60° C (32 ~ 140° F), with appropriate CPU cooler (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")	

Board Diagram



Ordering Information

Part Number	LAN	VGA	COM	DVI
PCI-7020VG-00A1E	Single GbE	Yes	2	(optional)

Bracket View



PCI-7020VG-00A1E

Packing List

Part Number	Description	Quantity
P/N: 1700002223	Printer port cable (2.0 mm pitch) with bracket	x 1
P/N: 1700003194	Serial ATA HDD data cable	x 1
P/N: 1703150102	Serial ATA HDD power cable	x 1
P/N: 1700006196	Power Cable 12P/Big 4P x 2 10 cm	x 1
P/N: 1700008762	Dual COM Cable Kit with bracket (2.0 mm pitch)	x 1
P/N: 1700060202	Keyboard and mouse Y-cable	x 1
P/N: 1700002343	ATX feature cable	x 1
P/N: 1700014398	4-port USB cable kit (2.0 mm pitch)	x 1
P/N: 9689000002	Jumper package	x 1
P/N: 1960035861N000	HEAT SINK 79 x 79 x 24 mm PCI-7020	x 1

Note: Purchasing PCE-7020's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with PCE-7020.

Optional Accessories

Part Number	Description
MBPC-641BP-60E	4-slot chassis w/150W power supply
IPC-6806SB-15ZBE	6-slot chassis w/150W power supply
PCA-AUDIO-HDA1E	HD Audio-card
1700000265	Power cable for single board usage
PCA-COM485-00A1E	4 x 422/485 COM module
PCA-COM232-00A1E	4 x 232 COM module
1701140201	COM Port Cable without bracket

Note: Using PCI-7020's proprietary CPU cooler (1960035861N000) from Advantech is a must. Other brands' CPU coolers are NOT compatible with PCI-7020