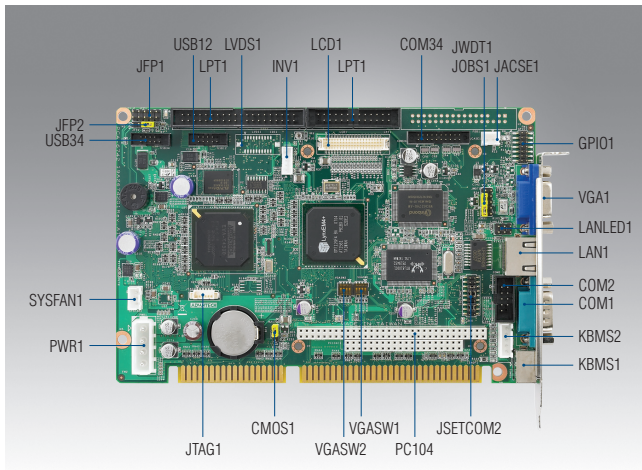


# PCA-6742

Advantech EVA-X4300 ISA Half-size SBC with  
VGA/LCD/LAN/CFC/USB and PC/104



## Features

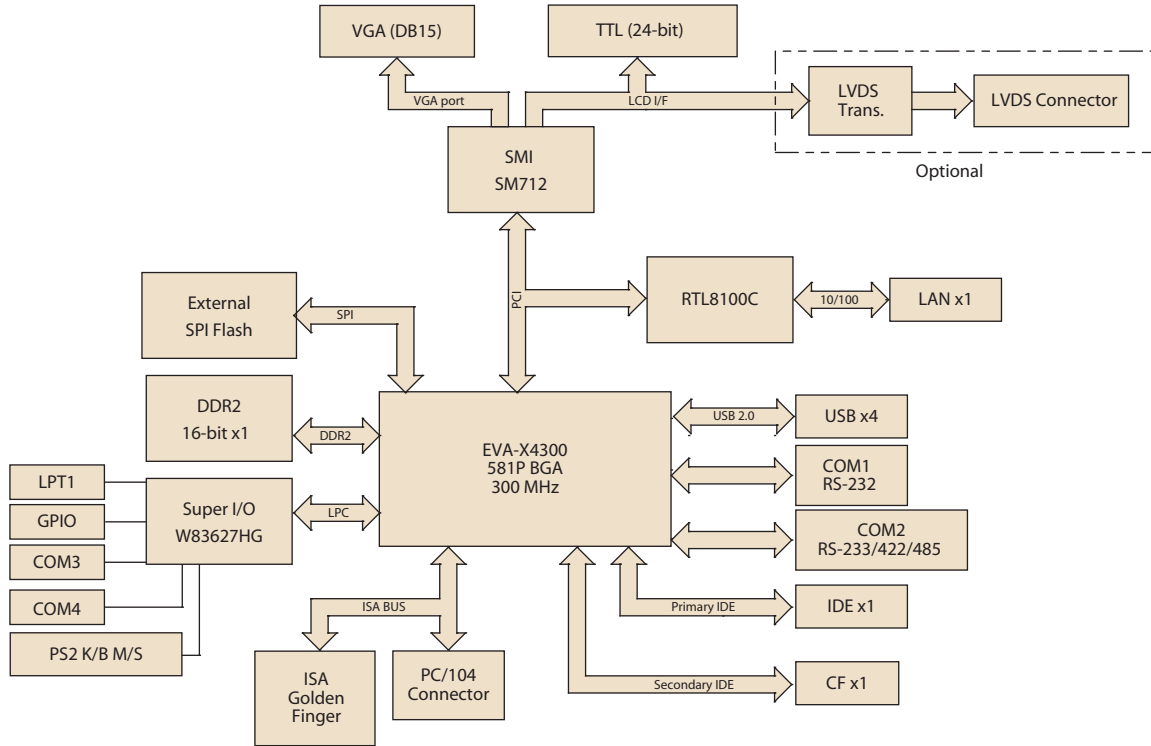
- Low power fanless EVA-X4300
- Onboard 128/64 DDR2 RAM
- 10/100 Mbps Ethernet
- 1024 x 768 @ 18/24-bit TTL/LVDS support



## Specifications

Processor System	CPU	Advantech EVA-X4300 up to 300 MHz	
	Max. Speed	300 MHz	
	L1 Cache	32 KB	
	Chipset	Advantech EVA-X4300 up to 300 MHz	
	BIOS	Award integrated 256 KB ROM in Advantech EVA-X4300	
Bus	PCI	32-bit/33 MHz	
	ISA	8/16-bit 8 MHz	
Memory	Technology	Default onboard DDR2 128 MB	
	Socket	-	
Graphics	Controller	Chipset integrated VGA controller VGA mode: SM712 graphics chip supports 1024 x 768 @ 24-bit true color LCD mode: SMI SM712 2D graphics chip supports 1024 x 768 @ 18/24-bit TFT	
	VRAM	4 MB display memory	
	LVDS	Yes (Optional)	
	TTL	Up to 24-bit TTL for TFT LCD	
	Dual Display	Supports CRT+LCD simultaneously display	
Ethernet	Interface	10/100 Mbps	
	Controller	Realtek RTL8100CL	
	Connector	RJ-45 x 1	
EIDE	Mode	PIO 4	
	Channel	1	
SATA (150 MB/s)	Port	-	
I/O Interface	USB	4 ports (USB 2.0 and USB1.1 under DOS)	
	Serial	4 COM (1 x RS-232/422/485 on one 2.54 mm pitch wafer box, 1 x RS-232 on rear I/O, 2 x RS-232 on one 2.0 mm pitch wafer box)	
	Parallel	1 (via super I/O)	
	FDD	-	
	GPIO	8 bit; COMS Level (0 ~ 3.3 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/IRQ11	
	Interval	Programmable, 1~255 sec/min	
Miscellaneous	Audio Output	-	
	Solid State Disk	CompactFlash socket (Type I/II), shared with secondary IDE	
Power Requirement	Typical	+5 V @ 1.6 A	
	Max	+5 V @ 2 A	
Environment	Temperature	Operating	Non-Operating (Storage)
		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")	
OS		DOS, Win CE 5.0	

### Board Diagram



### Ordering Information

P/N	CPU	LVDS	TTL	USB	GPIO	FE LAN	FDD
PCA-6742LV-00A1E	EVA-X4300	-	-	4	-	-	-
PCA-6742VE-00A1E	EVA-X4300	(Optional)	24-bit	4	1	RTL 8100C	-

### Optional Accessories

Part Number	Description
1703100260	USB cable with 2 ports (2.0 mm pitch)
1700008762	Dual-COM port cable kit for COM 3-4
PCA-SATAP2-00A1E	IDE/SATA Adapter for CPU cards

### Bracket View



PCA-6742LV-00A1E



PCA-6742VE-00A1E

### Packing List

Part Number	Description	Quantity
1701260305	COM2 + LPT cable	x 1
1700060202	Y-cable for PS/2 Keyboard, PS/2 Mouse	x 1
1701400452	EIDE (HDD) cable	x 1
9689000002	Jumper pack	x 1
1700008887	USB cable with 4 ports (2.0 mm pitch)	x 1
-	Utility CD	x 1
-	Startup manual	x 1