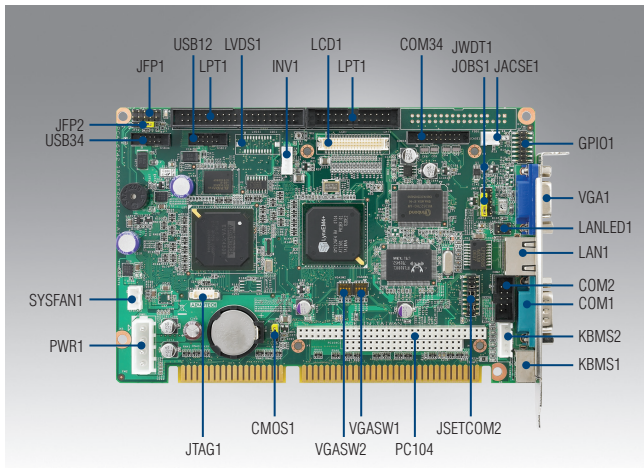


# PCA-6742

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



## Features

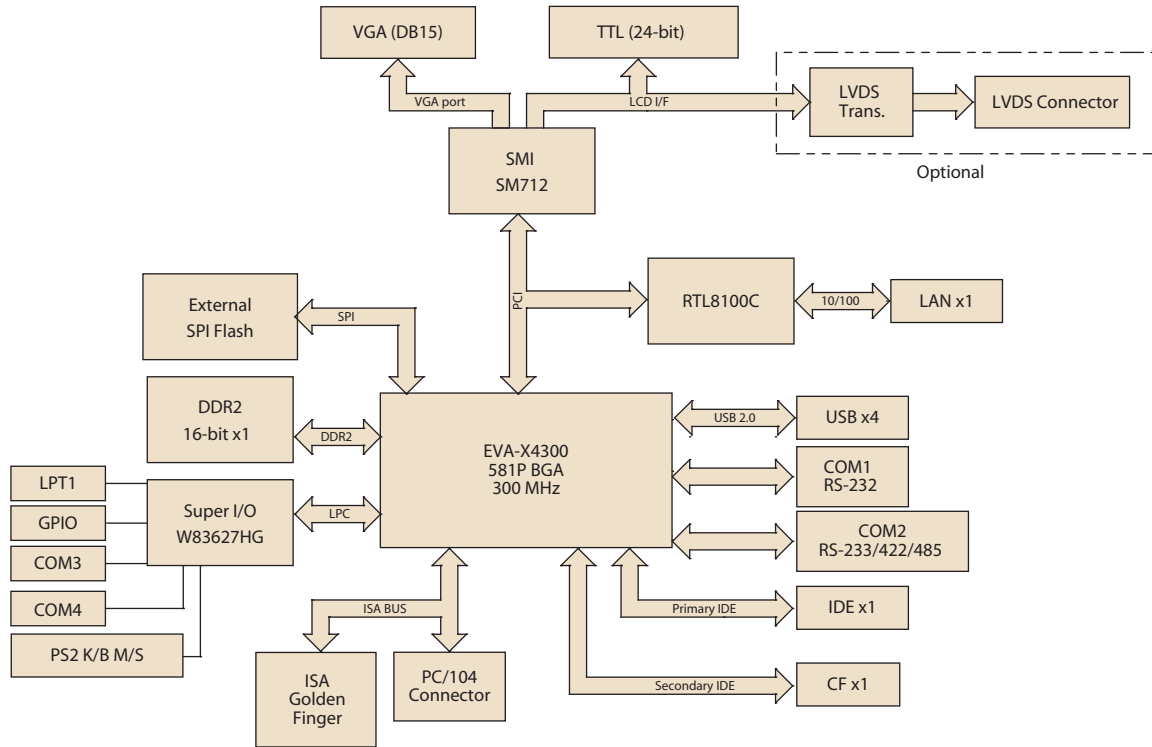
- Low power fanless EVA-X4300
- Onboard 128/64 DDR2 RAM
- 10/100 Mbps Ethernet
- 1024 x 768 @ 18/24-bit TTL/LVDS support

CE FCC

## 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	Operating	Non-Operating (Storage)
	Temperature	0 ~ 60 °C (32 ~ 140 °F) (operating humidity: 40 °C @ 85% RH Non-Condensing)
Physical	Dimensions (L x H)	185 x 122 mm (7.3" x 4.8")
OS		DOS, Win CE 5.0

### Block 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	-

### 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

### 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

### I/O View



PCA-6742LV-00A1E



PCA-6742VE-00A1E

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[GCS22.2.080.2.2.I](#) [GCS22.8.100.4.2.I](#) [GLS11.2.053.2.2.E](#) [A20-OLINUXINO-LIME-E16GS16M](#) [A20-OLINUXINO-LIME-S16M](#) [A20-](#)  
[OLINUXINO-LIME2-E16GS16M](#) [A20-OLINUXINO-MICRO-S16M](#) [BANANA PI BPI-W2](#) [T2-OLINUXINO-LIME2-S16M-IND](#) [T2-](#)  
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