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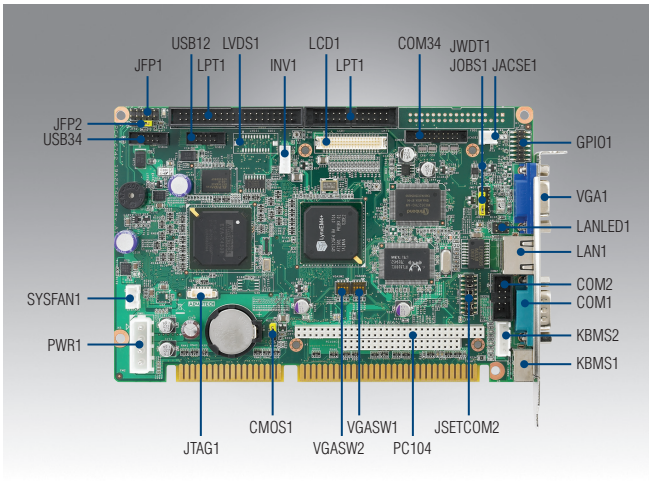
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Find the *Advantech EVA-X4300* at our website: ***Click HERE***

# PCA-6742

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




CE FCC

## Features

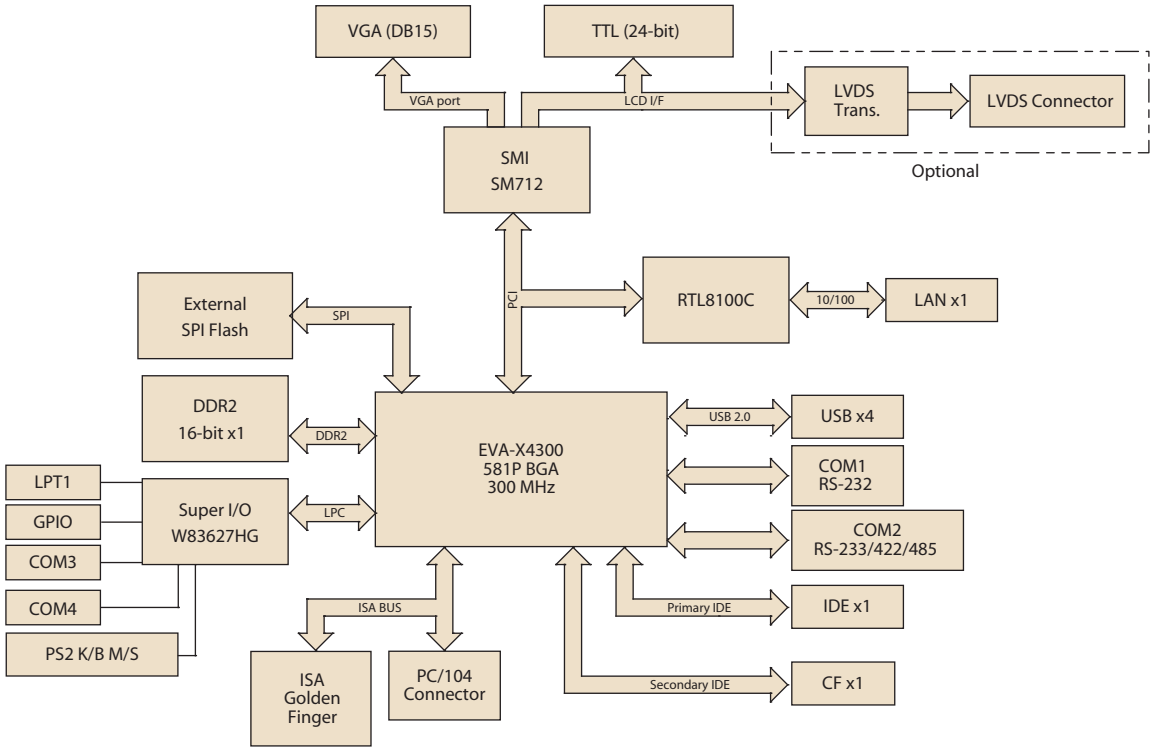
- Low power fanless EVA-X4300
- Onboard 128/64 DDR2 RAM
- 10/100 Mbps Ethernet
- 1024 x 768 @ 18/24-bit TTL/LVDS support

## 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<br>VGA mode: SM712 graphics chip supports 1024 x 768 @ 24-bit true color<br>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)<br>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) | -40 °C ~ 85 °C and 60 °C @ 95% RH Non-Condensing |
| Physical | Dimensions (L x H) | 185 x 122 mm (7.3" x 4.8") | |
| OS | | DOS, Win CE 5.0 | |


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## 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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