

# SBC84621

3.5" Embedded SBC with AMD LX800, Dual LANs, 4 COM, 4 USB 2.0 and VGA/LVDS  
(-40°C to +85°C)

## Features

- Low power fanless AMD LX800 processor
- Dual 10/100 Mbps Ethernet
- 4 COM ports and 4 USB 2.0 ports
- PC/104 and PCI Express Mini Card slots for expansion
- VGA and LVDS LCD



### Core System

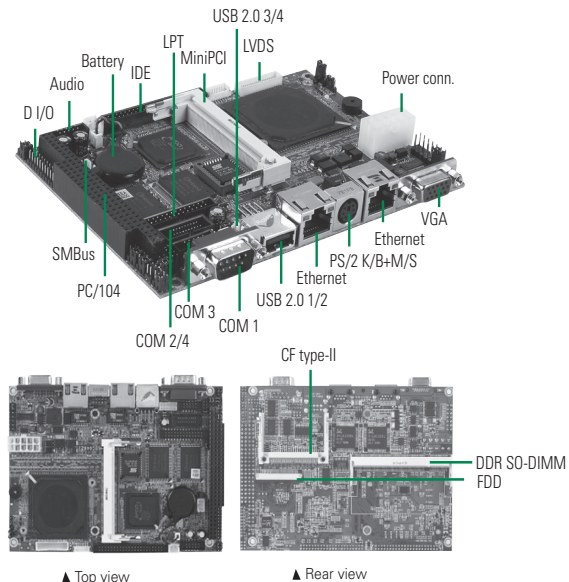
|                       |                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| CPU                   | AMD LX800 processor onboard                                                                                                            |
| System Memory         | 1 x 200-pin DDR-333/400 SO-DIMM, up to 1GB                                                                                             |
| Chipset               | AMD CS5536AD                                                                                                                           |
| BIOS                  | Phoenix-Award                                                                                                                          |
| SSD                   | 1 x CompactFlash™ type-II                                                                                                              |
| Board Unique ID       | Board unique ID (optional)                                                                                                             |
| Watchdog Timer        | 255 levels, 1 ~ 255 sec.                                                                                                               |
| Expansion Interface   | 1 x Mini PCI<br>1 x PC/104 for 16-bit ISA bus                                                                                          |
| Battery               | Lithium 3V/196 mAh                                                                                                                     |
| Power Input           | 2 x 5-pin connector<br>+5V DC-in only (+12V is required for +12V powered COM and LVDS inverter)<br>AT Auto Power ON function supported |
| Power Requirements    | AMD LX800 @ 500 MHz, 512MB DDR<br>Max. RMS: +5VSB @ 62.91mA, +3.3V @ 24.31mA,<br>+5V @ 1.071A, +12V @ 24mA, -12V @ 25mA                |
| Size                  | 146 x 104 mm                                                                                                                           |
| Board Thickness       | 1.6 mm                                                                                                                                 |
| Operating Temperature | Standard: 0°C ~ +60°C (32°F ~ 140°F)<br>Optional: -40°C ~ +85°C (-40°F ~ +185°F)<br>-25°C ~ +70°C (-13°F ~ +158°F)                     |
| Relative Humidity     | 10% ~ 95% relative humidity, non-condensing                                                                                            |

### I/O

|                     |                                                                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MIO                 | 1 x IDE; PATA-100<br>1 x FDD (optional)<br>1 x PS/2 keyboard and mouse<br>1 x RS-232/422/485 (COM 1 with +5V/+12V powered)<br>3 x RS-232 (COM 2-4 with +5V/+12V powered)<br>1 x LPT; with SPP/EPP/ECP supported |
| SATA                | N/A                                                                                                                                                                                                             |
| Hardware Monitoring | Detect CPU/system temperature and voltage                                                                                                                                                                       |
| Ethernet            | 2 ports as 10/100 Mbps support Wake-on-LAN, RPL/PXE<br>Boot ROM with Realtek RTL8139DL                                                                                                                          |
| Audio               | AC'97 Codec audio as MIC-in/Line-in/Line-out/speaker-out<br>with Realtek ALC203                                                                                                                                 |
| USB                 | 4 x USB 2.0                                                                                                                                                                                                     |
| SMBus               | System Management Bus for advanced monitoring/control                                                                                                                                                           |
| Digital I/O         | Refer to Ordering information                                                                                                                                                                                   |

### Display

|                   |                                               |
|-------------------|-----------------------------------------------|
| Chipset           | AMD LX integrated                             |
| Memory Size       | Max. up to 254 MB                             |
| Display Interface | 1 x VGA<br>1 x LVDS; 18/24-bit single channel |



### Packing List

#### Standard

Quick installation guide, user's manual/utility CD, cable

#### Cable

| Part Number  | Description             | SBC84621<br>VEEA-500 | SBC84621<br>VEA-500 | SBC84621<br>VEE-500 |
|--------------|-------------------------|----------------------|---------------------|---------------------|
|              |                         | Qty                  | Qty                 | Qty                 |
| 59484500010E | 44-44-40 pin IDE cable  | 1                    | 1                   | 1                   |
| 59402010000E | ATX power cable 10P     | 1                    | 1                   | 1                   |
| 59384500000E | COM + printer cable     | 1                    | 1                   |                     |
| 59384500100E | Audio cable w/ bracket  | 1                    | 1                   |                     |
| 594E8422800E | 2 x USB 2.0 wafer cable | 1                    | 1                   | 1                   |
| 59380000300E | COM port x 2 w/ bracket | 1                    | 1                   |                     |
| 59380010300E | COM port x 1 w/ bracket |                      |                     | 1                   |

### Ordering Information

#### Standard

| Models                                    | CPU              | LCD                | LAN | Audio | COM | PC/104 | DIO               |
|-------------------------------------------|------------------|--------------------|-----|-------|-----|--------|-------------------|
| SBC84621<br>VEEA-500<br>(P/N: E384621100) | LX800<br>500 MHz | VGA/18-bit<br>LVDS | 2   | Yes   | 4   | Yes    | 8-In and<br>8-Out |
| SBC84621<br>VEA-500<br>(P/N: E384621101)  | LX800<br>500 MHz | VGA/18-bit<br>LVDS | 1   | Yes   | 4   | Yes    | 8-In and<br>8-Out |
| SBC84621<br>VEE-500<br>(P/N: E384621102)  | LX800<br>500 MHz | VGA/18-bit<br>LVDS | 2   | N/A   | 2   | N/A    | 3-In and<br>5-Out |
| SBC84621<br>VEEA-500<br>(P/N: E384621106) | LX800<br>500 MHz | VGA/24-bit<br>LVDS | 2   | Yes   | 4   | Yes    | 8-In and<br>8-Out |
| SBC84621<br>VEA-500<br>(P/N: E384621107)  | LX800<br>500 MHz | VGA/24-bit<br>LVDS | 1   | Yes   | 4   | Yes    | 8-In and<br>8-Out |

#### Optional

| Models                                   | CPU              | LCD                | LAN | Audio | COM | PC/104 | D I/O             | W.T.            |
|------------------------------------------|------------------|--------------------|-----|-------|-----|--------|-------------------|-----------------|
| SBC84621<br>VEA-500<br>(P/N: E384621109) | LX800<br>500 MHz | VGA/18-bit<br>LVDS | 1   | Yes   | 4   | Yes    | 8-In and<br>8-Out | -25°C~<br>+70°C |
| SBC84621<br>VEA-500<br>(P/N: E384621123) | LX800<br>500 MHz | VGA/24-bit<br>LVDS | 1   | Yes   | 4   | Yes    | 8-In and<br>8-Out | -25°C~<br>+70°C |



## Assured Systems

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