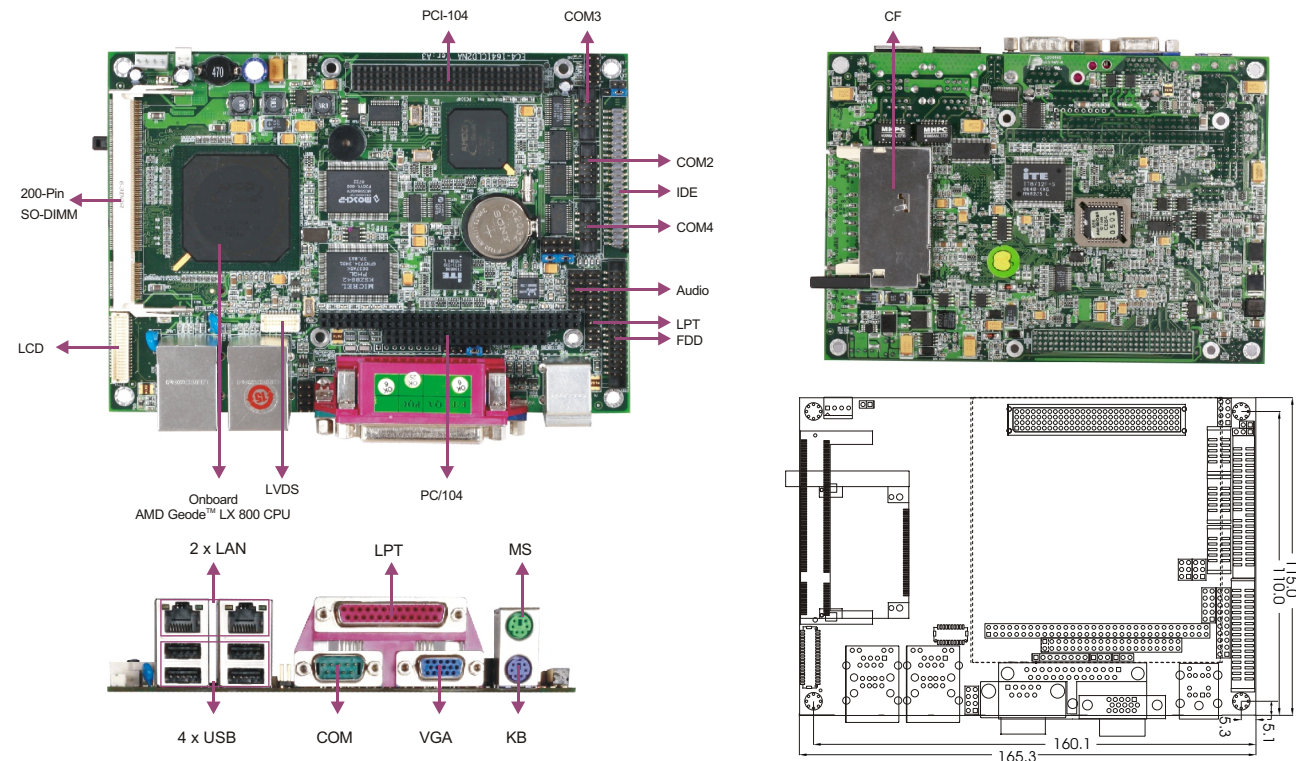


EC4-1641CLD2NA

EPIC SBC with AMD LX 800 /VGA/SSD/2LAN/Audio/4COM



1 Full Size Half-Size Slot CPU Cards

2 SBC/Motherboard Modules

3 Embedded Box PC

4 Network Application Computers

5 Industrial PC

6 HMI

7 EVOC Rugged Series

8 MCC Series

9 Chassis

10 Data Acquisition Boards & Modules

11 Accessories



Features

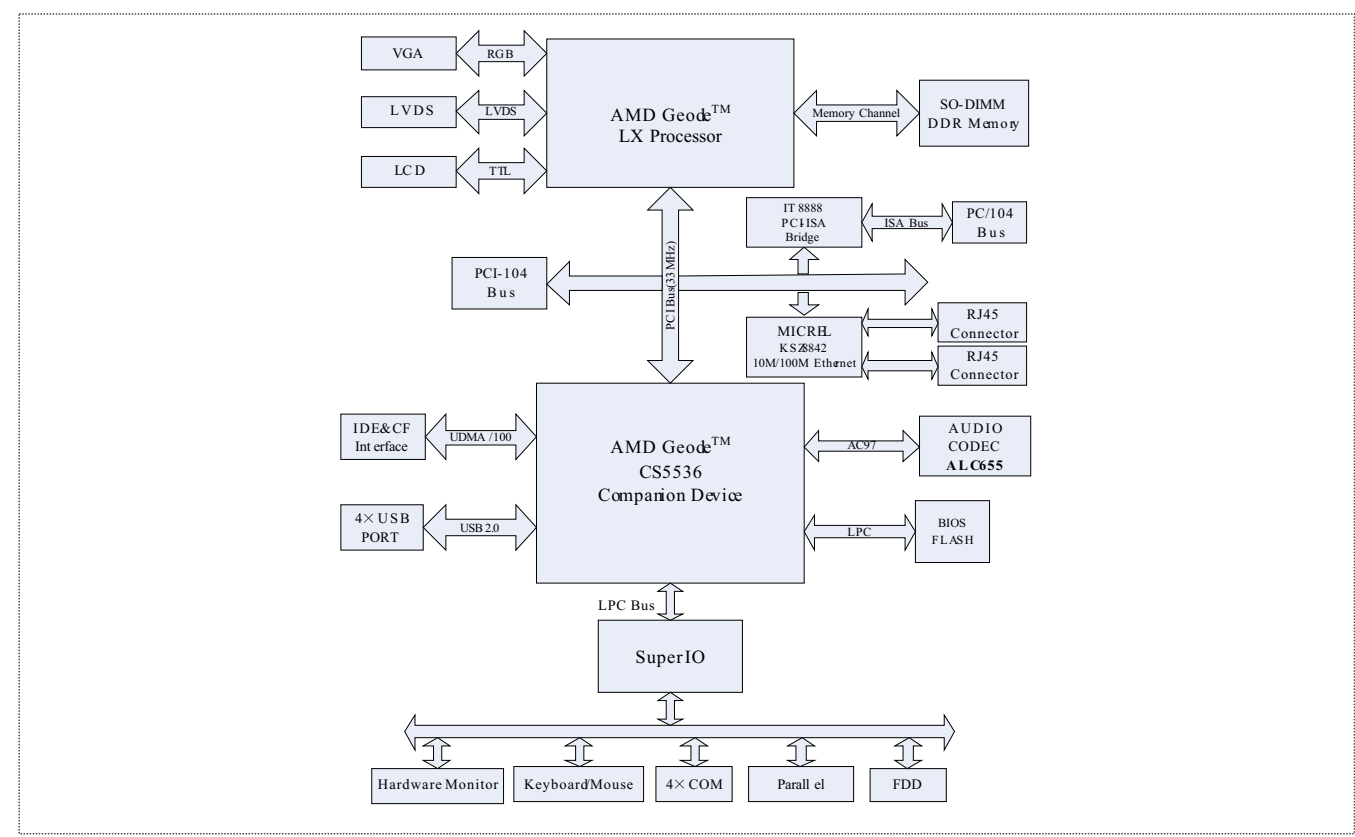
- EPIC SBC with PC/104-Plus expansion bus
- Onboard AMD Geode™ LX800 500MHz processor
- Onboard 1 x SO-DIMM slot, up to 1GB DDR266/333/400
- Supports 2 x 10/100Mbps Ethernet interface
- Supports VGA, LVDS, LCD display
- Supports 4 x USB2.0, 4 x COM, 1 x IDE, 1 x FDD, 1 x PC/104-Plus, 1 x CF, 1 x LPT

Specifications

| System | |
|---------------------|---|
| Processor | Onboard AMD Geode™ LX800 500MHz CPU |
| Chipset | AMD Geode™ CS5536 |
| Memory | 1 x 200-pin SO-DIMM Slot, supporting up to 1GB DDR 266/333/400 memory |
| Hardware Monitor | Monitors CPU temperature, voltage and watchdog timer etc. |
| Watchdog Timer | 1~255 sec./min. timer system reset/interrupt, setup by software |
| Expansion Interface | 1 x PC/104-Plus |
| Storage | |
| IDE | 1 x 44-pin Ultra ATA33/66/100 IDE interface |
| Serial ATA | N/A |
| Floppy | 1 x FDD interface |
| CF | 1 x CompactFlash Socket Type I/II |
| DOC/DOM | N/A |
| I/O Interface | |
| USB | 4 x USB2.0 port |
| Serial Port | 4 (2 x RS-232/422/485, 2 x RS-232), available interfaces of 1 x DB9 and 3 x 10-pin header onboard |
| Parallel Port | 1 x LPT |
| IrDA | N/A |
| GPIO | 8 x GPI, 8 x GPO |
| Audio | AC'97, onboard Realtek ALC655, available interfaces of Speaker-out, Line-in and Mic-in |

| Display | |
|------------------------------|---|
| Chipset | AMD LX800 integrated graphics controller |
| Memory | 64MB shared memory |
| Resolution | VGA mode up to 1600 x 1200@85Hz LCD mode up to 1024 x 768@18/24bit LVDS mode up to 1024 x 768@18bit |
| Dual Display | Supports LVDS+VGA, LVDS+ LCD Dual independent display |
| Ethernet | |
| Chipset | MICREL KSZ8842, supporting two Ethernet output |
| Speed | 10/100Mbps |
| Connector | 2 x RJ 45 |
| Mechanical and Environmental | |
| Dimensions | 165mm x 115mm |
| Operating Temperature | -15°C~60°C |
| Storage Temperature | -25°C~75°C |
| Operating Humidity | 5%-90%, non-condensing |
| Power | |
| Power Supply | DC 6~30V single power supply |
| Power consumption | Typical 4.9W (AMD LX800 CPU,256MB memory) |
| Operating System | |
| Windows OS | Windows 2000/Windows XP |
| Embedded OS | Linux/XP Embedded/WinCE |

Board Diagram



Available Accessories

| Part Number | Name | Description | Qty. |
|-------------|--------------------------------|--|------|
| — | Driver CD/protective film/RoHS | EC4-1641CLD2NA | 1 |
| — | User's Manual/RoHS | EC4-1641CLD2NA | 1 |
| — | Setup Guide/RoHS | AMI/BIOS Setup Guide (for CORE8) | 1 |
| 2330-000041 | Jumper/RoHS | 2.54mm pitch, blue | 4 |
| 2331-002251 | Pin header/RoHS | 2x20 Pin, 2.54mm pitch, two sides of equal length: 6+6mm | 1 |
| 2331-002261 | Pin header/RoHS | 2x32 Pin, 2.54mm pitch, two sides of equal length: 6+6mm | 1 |
| 2331-002421 | Socket/RoHS | PC104 2x32 Pin long socket, plastics height: 8.5mm, pin height: 5.65mm | 1 |
| 2331-002561 | Socket/RoHS | PC104 2x20 Pin long socket, plastics height: 8.5mm, pin height: 5.65mm | 1 |
| 2360-000841 | Audio cable/RoHS | Three audio jacks to one 2x5 Pin, length: 220mm/RoHS | 1 |
| 2360-008781 | HDD flat cable/RoHS | 40 Pin to 44 Pin (2.0mm pitch), length: 550mm/RoHS | 1 |
| 2360-009451 | FDD flat cable | (34p-34p-34p) connector (2.0mm pitch), length: 455mm/RoHS | 1 |
| 2360-011231 | Serial port cable/RoHS | DB9 connector to 2x5 Pin connector (2.0mm pitch), length: 300mm/RoHS | 3 |
| 2391-002141 | Nut/RoHS | M3/GB-T6170-1986/nickel plating | 4 |
| 2391-004631 | Copper hex bolts/RoHS | M3x25-4/CH-M3-25-4-Ni | 4 |
| 2330-000011 | Jumper/RoHS | 2.0mm pitch | 11 |

Related Product

| Item | Typical Recommendation |
|-----------------------|--------------------------------|
| PC/104 Expansion Card | 104-P8COM, 104-VGAEL, 104-4LAN |
| PC/104 Expansion Card | 104-8COM, 104-32ADT, 104-64IO |
| Power Supply | AT power supply |

Ordering Information

| Part Number | Model Number | Description |
|-------------|--------------------------------|----------------------------------|
| 0030-011611 | EC4-1641CLD2NA/English version | Motherboard/RoHS/English version |
| 0030-003840 | EC4-1641CLD2NA | Motherboard |
| 0030-003850 | EC4-1641CLD2NA/VER.E | (YF) Motherboard/VER.E |
| 0030-011610 | EC4-1641CLD2NA/English version | Motherboard/English version |

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