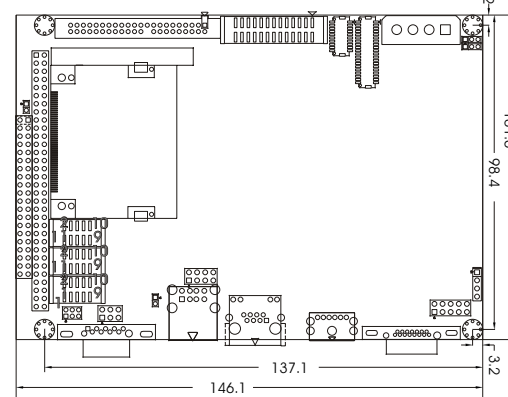
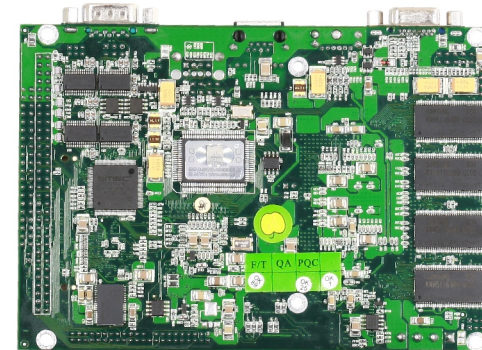
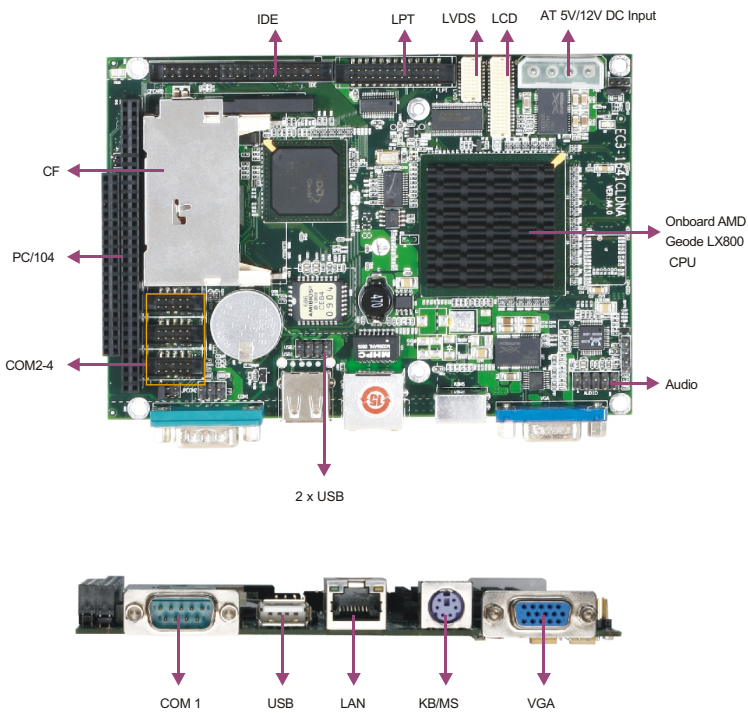


EC3-1641CLDNA

3.5" Single board with AMD Geode™ LX800/LCD/VGA/CF/LAN/Audio/4COM



Features

- 3.5" SBC with PC/104 expansion bus
- Onboard AMD Geode™ LX800MHz CPU
- Onboard 256MB DDR Memory, up to 512MB (optional)
- Supports VGA/LVDS/TTL LCD
- Supports 3 x USB2.0, 4 x COM, 1 x IDE, 1 x PC/104, 1 x LPT, 1 x LVDS, 1 x LCD, 1 x VGA, 1 x CF

Specifications

System	
Processor	Onboard AMD Geode™ LX800 500MHz CPU, fanless design
Chipset	AMD Geode™ CS5536
Memory	Onboard 256MB DDR Memory, up to 512MB (optional)
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
Storage	
IDE	1 x 44-pin Ultra ATA33/66/100 interface
Serial ATA	N/A
Floppy	N/A
CF	1 x CompactFlash Socket Type I/II
DOC/DOM	N/A
I/O Interface	
USB	3 x USB2.0 port, available interfaces of one standard port and 1 x 9-pin header onboard
Serial Port	1 x RS-232/422/485, 3 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	N/A
Audio	AC'97, available interfaces of Speaker-out, Line-in and Mic-in

Display	
Chipset	AMD Geode™ 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 VGA + LVDS, VGA+LCD and LVDS+LCD simultaneous dual-channel display

Ethernet	
Chipset	Realtek RTL8139D
Speed	10/100Mbps
Connector	1 x RJ 45

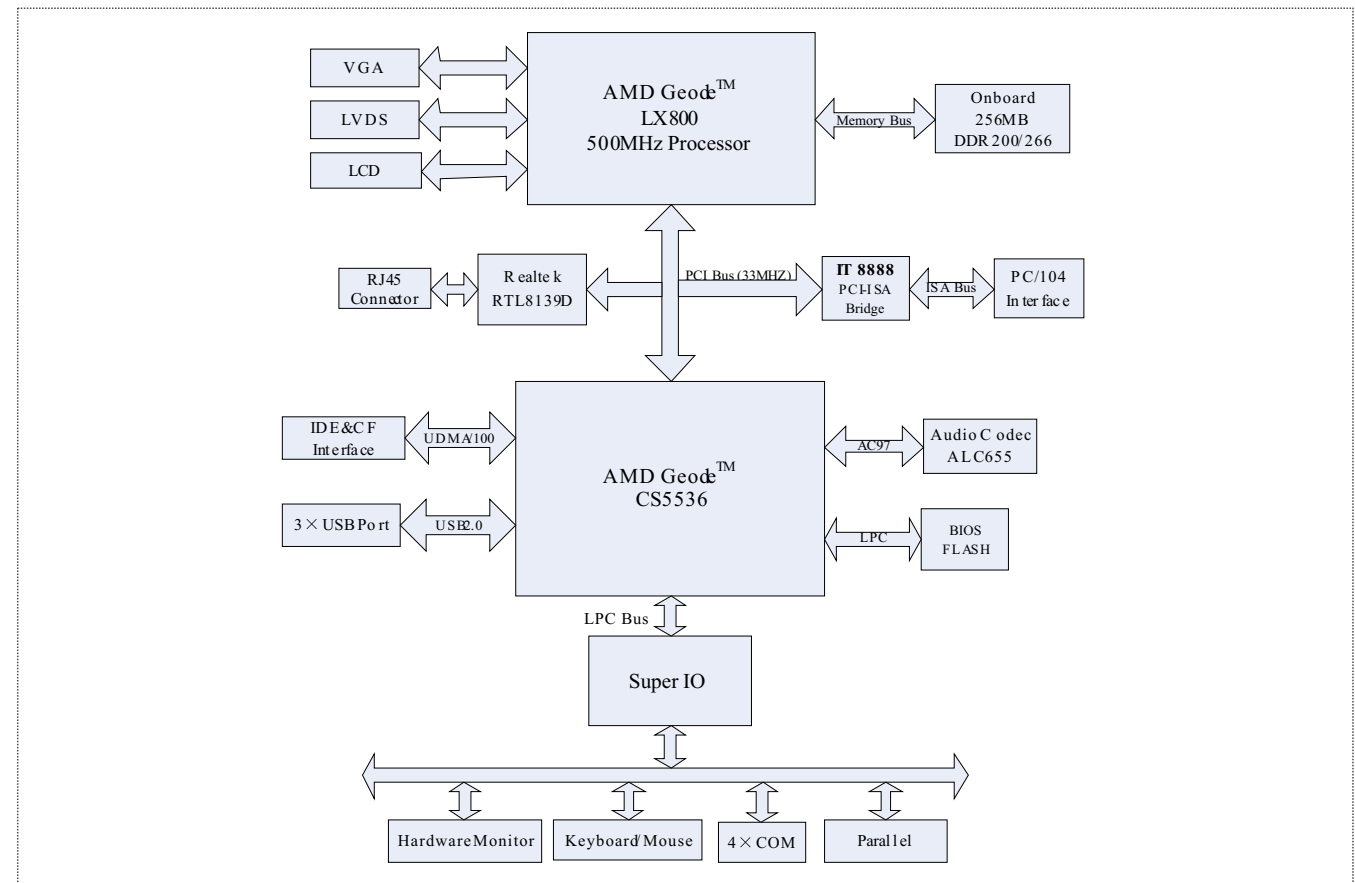
Mechanical and Environmental	
Dimensions	146mm x 102mm
Operating Temperature	-15°C~65°C
Storage Temperature	-25°C~75°C
Operating Humidity	5%-90%, non-condensing

Power	
Power Supply	AT 5V/12V DC Input
Power Consumption	Typical 4.9W (AMD LX800 CPU, 256MB memory)

Operating System	
Windows OS	Windows 2000/Windows XP
Embedded OS	Linux/XP Embedded/WinCE

Test	
EMC/EMI	
Certification	

Board Diagram



Available Accessories

Part Number	Name	Description	Qty.
—	Driver CD/Protective film/RoHS	EC3-1641CLDNA	1
—	User's Manual/RoHS	EC3-1641CLDNA	1
—	Setup Guide/RoHS	AMI/BIOS Setup Guide (for CORE8)	1
2330-000011	Jumper/RoHS	2.0mm pitch	2
2360-000841	Audio cable/RoHS	Three audio jacks to one 2x5 Pin, length: 220mm/RoHS	1
2360-005031	Y-cable for keyboard and mouse/RoHS	One Mini-DIN port to two PS/2 ports, length: 250mm/RoHS	1
2360-008471	HDD flat cable/RoHS	44 Pin HDD cable (2.0mm pitch), length: 150mm	1
2360-010841	Dual USB ports with bracket/RoHS	Two USB ports to one 2x4 Pin, connector (2.54mm pitch), length: 300mm/RoHS	1
2360-011221	Parallel port cable/RoHS	DB25 connector to 2x13 Pin connector (2.0mm pitch), length: 300mm/RoHS	1
2360-011231	Serial port cable/RoHS	DB9 connector to 2x5 Pin connector (2.0mm pitch), length: 300mm/RoHS	3

Related Product

Item	Typical Recommendation
PC/104 Expansion Card	104-8COM, 104-32ADT, 104-64IO
Power Supply	AT or ATX

Ordering Information

Part Number	Model Number	Description
0030-011571	EC3-1641CLDNA/English version	Motherboard/RoHS/English version
0030-006340	EC3-1641CLDNA	Motherboard
0030-006341	EC3-1641CLDNA	Motherboard/RoHS
0030-010621	EC3-1641CLDNA/TA/Conformal coating	Motherboard/RoHS/TA/Conformal coating
0030-007301	EC3-1641CLDNA/Conformal coating	Motherboard/RoHS/Conformal coating
0030-011570	EC3-1641CLDNA/English version	Motherboard/English version