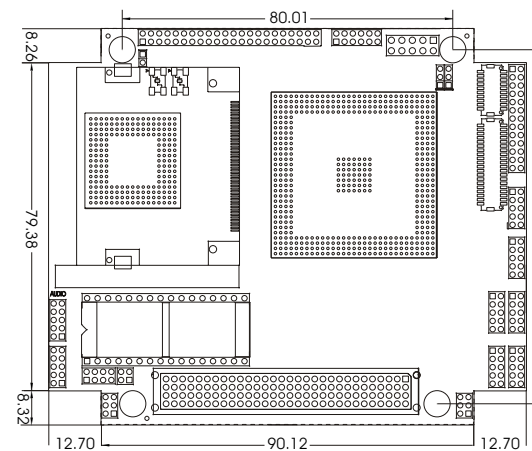
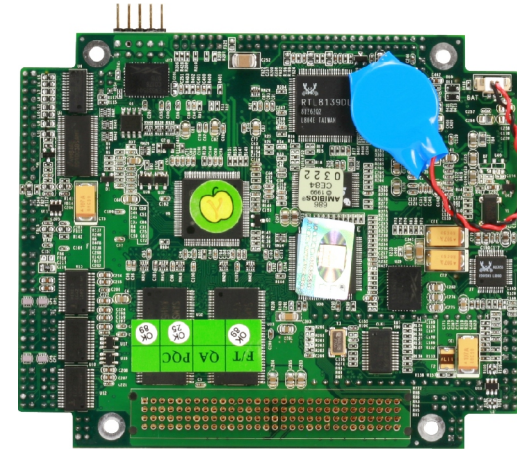
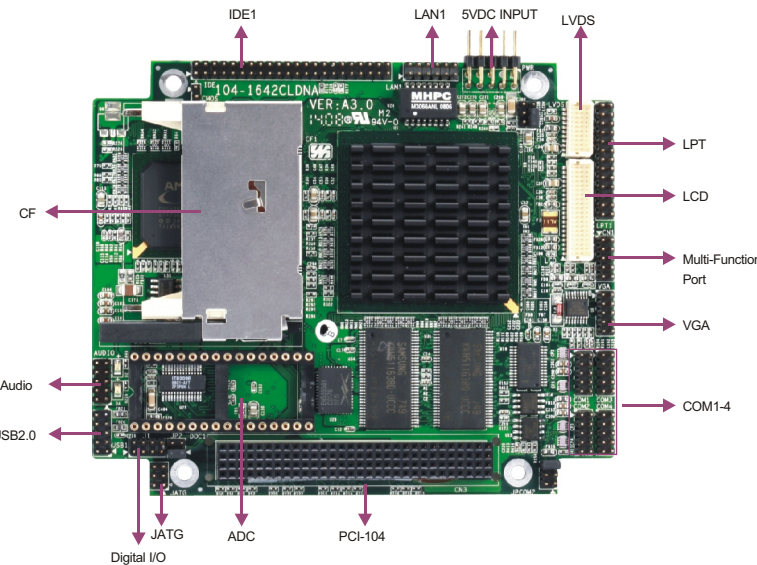


104-1642CLDNA

P3 Series SBC with CPU/Memory/LCD/VGA/SSD/LAN/Audio



Features

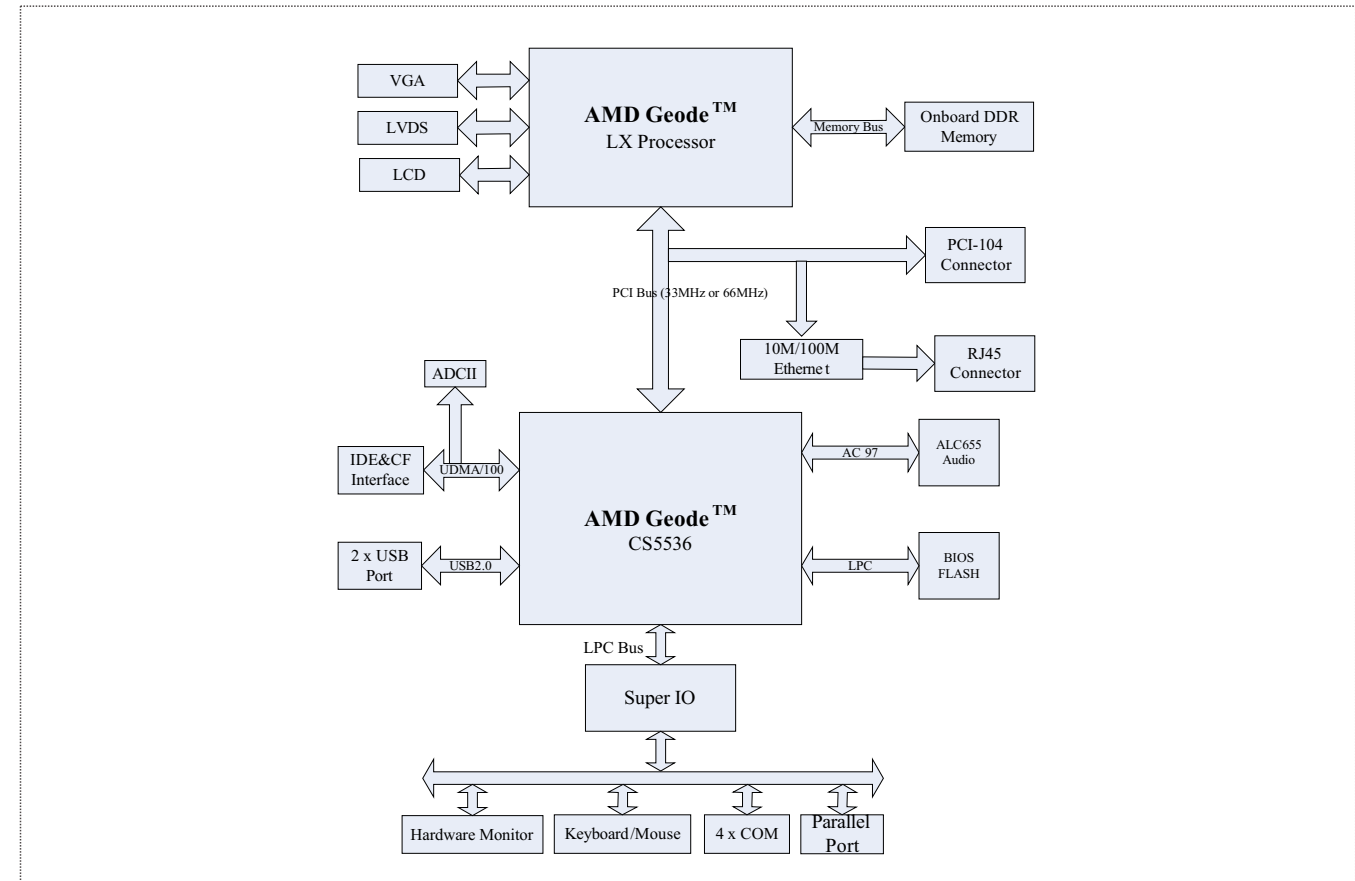
- Onboard AMD LX800 CPU
- Onboard memory up to 256MB DDR Memory
- Supports 1 x 10/100Mbps Ethernet interface
- Supports 4 x COM, 2 x USB2.0, 1 x CF, 1 x IDE, 1 x LPT, 1 x PCI-104
- Supports VGA/18/24-bit TFT LCD and EL screen

Specifications

| System | |
|---------------------|--|
| Processor | Onboard AMD Geode™ LX800 500MHz CPU |
| Chipset | AMD Geode LX800 + AMD CS5536 |
| Memory | Onboard 128MB DDR memory (256MB optional) |
| Watchdog Timer | 1~255 sec./min. timer system reset or interrupt, setup by software |
| Hardware Monitor | Monitors CPU temperature, voltage and watchdog timer |
| Expansion Interface | PCI-104 bus |
| Storage | |
| IDE | 1 x Ultra ATA33/66/100 interface |
| Serial ATA | N/A |
| CF | 1 x CompactFlash Socket Type I/II |
| DOC/DOM | 1 x ADC |
| I/O Interface | |
| USB | 2 x USB2.0 port, available interface of 1 x 9-pin header on board |
| Serial Port | 3 x RS-232, 1 x RS-232/422/485 |
| Parallel Port | 1 x LPT |
| IrDA | N/A |
| GPIO | 8 x digital input/output |
| Audio | Supports AC'97, onboard Realtek ALC655 |

| Display | |
|------------------------------|---|
| Chipset | AMD Geode™ LX800 integrated graphics processor |
| Memory | 8MB shared system 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+CRT, LVDS+ LCD dual display |
| Ethernet | |
| Chipset | Realtek RTL8139 |
| Speed | 10/100Mbps |
| Connector | 1 x LAN port, available interface of 9-pin header on board |
| Mechanical and Environmental | |
| Dimensions | 115mm x 96mm |
| Operating Temperature | -40°C~85°C |
| Storage Temperature | N/A |
| Operating Humidity | 5%-90%, non-condensing |
| Power | |
| Power Supply | Single +5V. Supports AT power supply |
| Power Consumption | Typical 4.35W (AMD LX800 500Mhz, 128MB memory) |
| Operating System | |
| Windows OS | Windows XP |
| Embedded OS | Linux/XP Embedded |

Board Diagram



Available Accessories

| Part Number | Name | Description | Qty. |
|-------------|---------------------------------------|---|------|
| 2330-000011 | Jumper/RoHS | 2.0mm pitch | 4 |
| 2360-002581 | Audio cable with bracket/RoHS | Three audio jacks to one 2x5 Pin connector (2.0mm pitch), length: 300mm/RoHS | 1 |
| 2360-008781 | HDD cable/RoHS | 40-pin to 44-pin (2.0mm pitch), length: 550mm/RoHS | 1 |
| 2360-011221 | Parallel port cable/RoHS | DB25 connector to 26-pin (2x13) 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 | 4 |
| 2360-012641 | VGA cable/RoHS | VGA connector to 2x5 Pin connector (2.0mm pitch), length: 300mm/RoHS | 1 |
| 2360-012651 | Power cable/RoHS | One male power 4-pin (5.08mm pitch) connector to 2x5 Pin, length: 250mm/RoHS | 1 |
| 2360-014781 | Dual USB ports with bracket/RoHS | Two USB ports to one 2x5 Pin connector (2.0mm pitch), length: 550mm/RoHS | 1 |
| 2360-017471 | Parallel flat cable/RoHS | Two ports 2x6-pin connector (2.0mm pitch), length: 250mm | 1 |
| 2360-017481 | Multi-functional converter cable/RoHS | Buzzer reset button dual PS/2 connectors to 2x5-pin 2.0mm pitch female connector, length: 250mm | 1 |
| 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 |
| — | Driver CD/Protective film/RoHS | 104-1642CLDNA | 1 |
| — | User's Manual/RoHS | 104-1642CLDNA | 1 |
| — | Setup Guide/RoHS | AMI/BIOS Setup Guide (for CORE8) | 1 |

Related Product

| Item | Typical Recommendation |
|-----------------------|-------------------------|
| PC/104 Expansion card | 104-1642CLDNA+104-P4COM |

Ordering Information

| Part Number | Model Number | Description |
|-------------|------------------------------------|---------------------------------------|
| 0030-001071 | 104-1642CLDNA | Motherboard/RoHS |
| 0030-001070 | 104-1642CLDNA | Motherboard |
| 0030-010481 | 104-1642CLDNA/TC/Conformal coating | Motherboard/RoHS/TC/Conformal coating |
| 0030-004530 | 104-1642CLDNA/Conformal coating | Motherboard/Conformal coating |

- 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 EVOG Rugged Series
- 8 MCC Series
- 9 Chassis
- 10 Data Acquisition Boards & Modules
- 11 Accessories

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