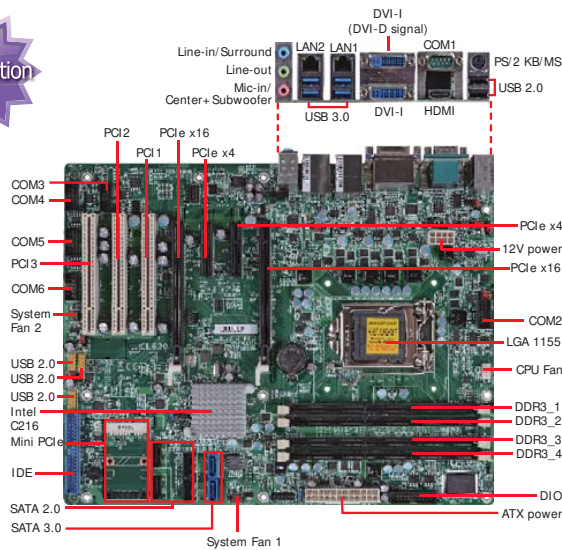


DEI[®] CL630-CRM ATX



Features

CHIPSET	Intel® C216
CPU	3rd/ 2nd Generation Intel® Xeon® processors 3rd/ 2nd Generation Intel® Core™ processors
MEMORY	4 DDR3 DIMM up to 32GB
EXPANSION	2 PCIe x16 (1 x16 signal or 2 x8 signal) 2 PCIe x4 (1 x4 signal and 1 x1/ x4 signal) 1 Mini PCIe 3 PCI
DISPLAY OUTPUTS	3 Independent Displays 1 HDMI , 1 DVI-I, 1 DVI-D
LAN	2 Gigabit LAN ports
COM	6 COM
USB	12 USB: 4 USB 3.0, 8 USB 2.0
STORAGE	6 SATA: 2 SATA 3.0, 4 SATA 2.0 1 IDE
DIO	8-bit DIO

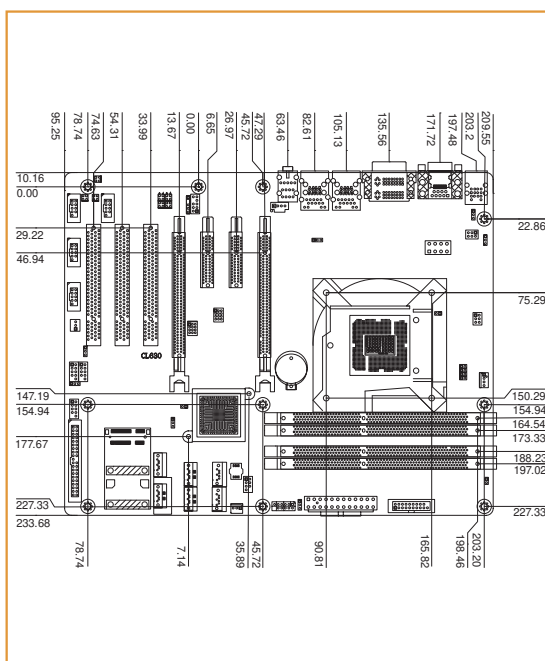
ECC/ Non-ECC

3 Independent Displays

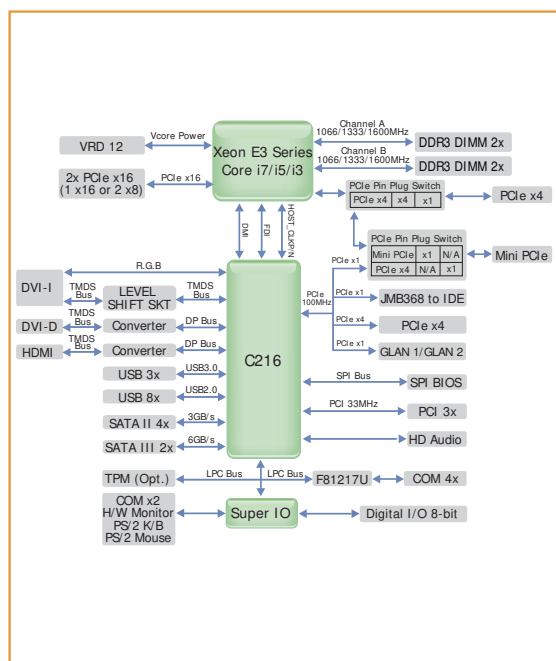
0 ~ 60°C

2 PCIe x16 and 2 PCIe x4 provides multiple PCIe configurations

Mechanical Drawing



Block Diagram



CL630-CRM ATX DFI®

Specifications

3rd/ 2nd Generation Intel® Xeon® processors
3rd/ 2nd Generation Intel® Core™ processors

PROCESSOR

- LGA 1155 socket for:
 - 3rd Generation processors (22nm process technology)
 - : Intel® Xeon® E3-1275v2 (8M Cache, up to 3.9GHz); 77W
 - : Intel® Xeon® E3-1225v2 (8M Cache, up to 3.6GHz); 77W
 - : Intel® Core™ i7-3770 (8M Cache, up to 3.9GHz); 77W
 - : Intel® Core™ i5-3550S (6M Cache, up to 3.7GHz); 65W
 - : Intel® Core™ i3-3220 (3M Cache, 3.3GHz); 55W
 - : Intel® Pentium® G2120 (3M Cache, 3.1GHz); 65W
 - 2nd Generation processors (32nm process technology)
 - : Intel® Xeon® E3-1275 (8M Cache, up to 3.8GHz); 95W
 - : Intel® Xeon® E3-1225 (6M Cache, up to 3.4GHz); 95W
 - : Intel® Core™ i7-2600 (8M Cache, up to 3.8GHz); 95W
 - : Intel® Core™ i5-2400 (6M Cache, up to 3.4GHz); 95W
 - : Intel® Core™ i3-2120 (3M Cache, 3.3GHz); 65W
 - : Intel® Pentium® G850 (3M Cache, 2.9GHz); 65W

CHIPSET

- Intel® C216 Express chipset

SYSTEM MEMORY

- Four 240-pin DDR3 DIMM sockets
- Supports DDR3 1333/1600MHz (3rd generation processors)
- Supports DDR3 1066/1333MHz (2nd generation processors)
- Supports dual channel memory interface
- Supports up to 32GB system memory
- DRAM device technologies: 1Gb, 2Gb and 4Gb DDR3 DRAM technologies are supported for x8 and x16 devices, unbuffered, ECC

EXPANSION SLOTS

- 2 PCIe x16 slots
 - Supports Gen 3.0 (3rd generation processors)
 - Supports Gen 2.0 (2nd generation processors)
 - 1 x16 signal or 2 x8 signals
- 2 PCIe x4 slots (PCIe 2.0)
 - 1 x4 signal and 1 x1/x4 signal
- 1 Mini PCIe slot: PCIe and USB signals (PCIe 2.0)
 - Supports half size and/or full size Mini PCIe card
- 3 PCI slots (PCI 2.3)

ONBOARD GRAPHICS FEATURES

- Intel® HD Graphics 4000P
- Display ports: HDMI, 2 DVI-I (1 supports DVI-D signal only)
- HDMI and DVI display resolution up to 1920x1200
- VGA display resolution up to 2048x1536 pixels with 32-bit color at 75Hz
- Intel® Clear Video Technology
- Intel® Advanced Vector Extensions (Intel® AVX) Instructions
- Supports DirectX 11 and OGL 3.0

ONBOARD AUDIO FEATURES

- Realtek ALC886 5.1-channel High Definition Audio
- Audio outputs: Mic-in/Center+ Subwoofer, line-in/surround and line-out
- S/PDIF audio interface

ONBOARD LAN FEATURES

- Intel® WG82579LM with iAMT8.0 Gigabit Ethernet Phy
- Intel® WG82574L PCI Express Gigabit Ethernet controller
- Integrated 10/100/1000 transceiver
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

SERIAL ATA (SATA) INTERFACE

- 6 Serial ATA ports
 - 2 SATA 3.0 ports with data transfer rate up to 6Gb/s
 - 4 SATA 2.0 ports with data transfer rate up to 3Gb/s (SATA port 4 provides adequate space for SATA DOM)
- Integrated Advanced Host Controller Interface (AHCI) controller
- Supports RAID 0/1/5/10

INTEL ACTIVE MANAGEMENT TECHNOLOGY (AMT)

- Supports iAMT8.0
- Out-of-band system access
- Remote troubleshooting and recovery
- Hardware-based agent presence checking
- Proactive alerting
- Remote hardware and software asset tracking

TRUSTED PLATFORM MODULE (TPM) - optional

- Provides a Trusted PC for secure transactions
- Provides software license protection, enforcement and password protection

USB INTERFACE

- XHCI Host Controller supports up to 4 super speed USB 3.0 ports

REAR PANEL I/O PORTS

- 1 mini-DIN-6 port for PS/2 mouse/keyboard
- 4 USB 3.0/2.0/1.1 ports
- 2 USB 2.0/1.1 ports
- 1 DB-9 serial port
 - Supports RS232/422/485 (RS232 and/or Power)
- 1 HDMI port
- 2 DVI-I ports (1 supports DVI-D signal only)
- 2 RJ45 LAN ports
- Line-in/surround, Line-out, and Mic-in/Center+ Subwoofer jacks

I/O CONNECTORS

- 3 connectors for 6 external USB 2.0/1.1 ports
- 5 connectors for 5 external serial ports
 - 1 RS232/422/485 (RS232 and/or Power)
 - 4 RS232
- 1 8-bit Digital I/O connector
- 1 front audio connector for line-out and mic-in jacks
- 1 CD-in connector
- 1 S/PDIF connector
- 6 Serial ATA ports (2 SATA 3.0; 4 SATA 2.0)
- 1 IDE connector
- 1 24-pin ATX power connector
- 1 8-pin 12V power connector
- 1 chassis intrusion connector
- 1 front panel connector
- 3 fan connectors

BIOS

- AMI BIOS
- 64Mbit SPI BIOS

ENERGY EFFICIENT DESIGN

- Supports ErP Lot6 power saving (optional)
- ACPI v3.0 specification
- System Power Management
- Wake-On-Events include:
 - Wake-On-PS/2 KB/Mouse
 - Wake-On-USB KB/Mouse
 - Wake-On-LAN
 - RTC timer to power-on the system
- CPU stopped clock control
- AC power failure recovery

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm
- Monitors Vcore/5V/3.3V/V_DIMM/12V/5VSB voltages and failure alarm
- Monitors CPU/system fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed
- Watchdog timer function

POWER CONSUMPTION

- 86.49 W with E3-1275 at 3.40GHz and 4x 1GB DDR3 DIMM

TEMPERATURE

- Operating: 0°C to 60°C
- Storage: -20°C to 85°C

HUMIDITY

- 10% to 90%

DIMENSIONS

- ATX form factor
- 305mm (12") x 244mm (9.6")

CERTIFICATION

- CE
- FCC Class B
- RoHS
- UL

Packing List

- 1 CL630-CRM motherboard
- 2 USB port cables (with bracket)
- 2 Serial ATA data cables
- 2 COM port cables (with bracket)
- 1 I/O shield
- 1 DVD
- 1 QR (Quick Reference)

Optional Items

- USB port cable
- Serial ATA data cable
- Serial ATA power cable
- COM port cable
- IDE cable
- I/O shield

DFI reserves the right to change the specifications at any time prior to the product's release. Changes thereafter will be based on the product's revision. Please contact your sales representative for the exact revision offered in your area. All product names mentioned are trademarks of their respective companies. © August 16, 2012 DFI Inc.

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660