

COTS Commercial Grade 4U Rackmount Computer System

C431 Photos



26.4"



I/O connectors are dependent upon the model selected. See specifications for details.

Who We Are

CHASSIS PLANS

- Chassis Plans designs, fabricates and integrates standard and customized high-performance computing platforms and LCD monitors for military, industry, and commercial applications.
- Using COTS components, Chassis Plans provides solutions for customers who need reliable systems that will operate in a variety of harsh conditions and who require revision control and hardware consistency for multi-year programs.
- Chassis Plans is an ITAR Registered and SBA-certified small business that has been operating in Southern California for over a decade.

YOUR CONFIGURATION. ONE PART NUMBER.

- It's our mission to make your life easier. Our Sales Engineers will help you select the right configuration for your project, making sure the details are analyzed and that the system meets your specifications.
- One part number means easier procurement and less paperwork for you.
- Dedicated Sales and Program Managers.
- Last time buy opportunities for end-of-life components.



Models C43101, C43109, C43110, C43111, C43113

Assembled in the USA
ISO 9001:2008 Certified
ITAR Registered

Our C431 computing platform can be used for many computationally-intensive applications, while offering extensive drive bay options. With the added security of sturdy construction, this system has revision controlled, long-life components that provide stability for long program duration.

Specifications for our standard products can always be customized to fit your unique application requirements.

In-house Engineering Department

Rapid Prototyping

CPU Options

- Single Intel® Core i5® or i7®
- Single Intel® Xeon® E3 Series
- Single or Dual Intel® Xeon® E5 Series

Drive Capacity

- 6(x) 5.25" External Drive Bay
- 1(x) 3.5" External Drive Bay

Applications

- Aviation
- Broadcast
- Energy
- Telemetry
- Diagnostics
- Simulation
- C4ISR
- Communications
- Imaging
- Persistent Surveillance
- Public Safety
- Automation
- Test and Measurement
- Transportation
- Medical



Benefits

- Revision-Controlled Components
- Long-Life Components
- Optimal for Long Program Life Cycles
- Excellent Value over Program Life
- Customizable I/O Connections
- Variety of Expansion Slots Available

Environments

Components meet the below specifications.

HIGH TEMPERATURE

50°C Operational, 85°C Storage
C43109: 35° Operational, 70°C Storage

LOW TEMPERATURE

0°C Operational, -20°C Storage
C43109: 0°C Operational, -40°C Storage



For more information visit
www.chassis-plans.com
or call 858.571.4330

Chassis Plans
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C431-1216

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COTS Commercial Grade 4U Rackmount Computer System

MILITARY | INDUSTRIAL | COMMERCIAL



Chassis Specifications

DIMENSIONS

19" X 7" X 26.4" (482.6mm X 177.8mm X 670.6mm)

WEIGHT

59 pounds, weight varies by configuration

ENCLOSURE FEATURES

Construction

Heavy duty, cold-rolled electroplated steel

Front Door

Single door with a twist lock
Removable/washable air filter

Drive Capacity

6(x) 5.25" external drive bay
1(x) 3.5" external drive bay

Indicators

Power on, hard drive access

Switches

System power, system reset switches

Card Retention

Adjustable hold-down bar for plug-in cards

FRONT USB PORTS

(2x) ports USB 2.0

SYSTEM COOLING

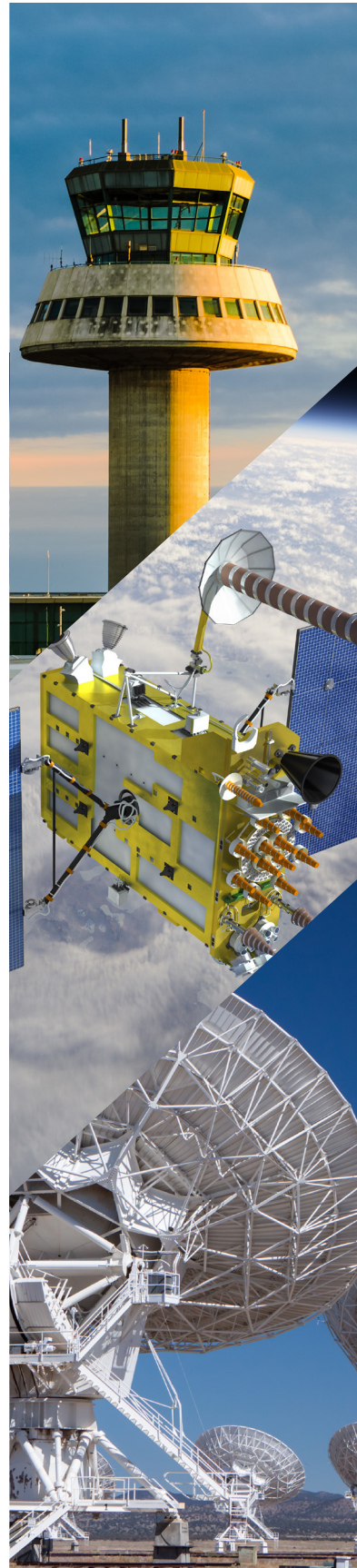
(4x) Hot swappable 92mm cooling fans

MOTHER BOARD CAPACITY

Designed for EATX-sized motherboard (13" X 12")

POWER SUPPLY

Single or redundant 600W 110/220 Volt AC
Other power options available



Computer Specifications

	C43101	C43109	C43110	C43111	C43113
CPU	Single Intel® Core i7®-860, 2.80GHz OR Single Intel® Core i5®-660, 3.33GHz	Single or Dual Intel® Xeon® Processor E5-2658 (20M, 2.10GHz, 8.0 GT/s Intel® QPI) OR Single or Dual Intel® Xeon® Processor E5-2428L (15M, 1.80GHz, 7.2 GT/s Intel® QPI)	Single or Dual Intel® Xeon® Processor E5-2658 (20M, 2.10 GHz, 8.0 GT/s Intel® QPI) OR Single or Dual Intel® Xeon® Processor E5-2428L (15M, 1.80 GHz, 7.2 GT/s Intel® QPI)	Single or Dual Intel® Xeon® Processor E5-2658 (20M, 2.10 GHz, 8.0 GT/s Intel® QPI) OR Single or Dual Intel® Xeon® Processor E5-2428L (15M, 1.80 GHz, 7.2 GT/s Intel® QPI)	Single Intel® Core i7-4770S 3.9GHz OR Single Intel® Core i5-4570S 3.6GHz
CHIP SET	Intel® Q57 Platform Controller Hub (PCH)	Intel® C606 Platform Controller Hub (PCH)	Intel® C600-A Platform Controller Hub (PCH)	Intel® C602 Platform Controller Hub (PCH)	Intel® Q87 Express
MAX RAM	(4x) 240-pin DDR3 Max. 16GB	(8x) 240-pin DDR3 Max. 256GB ECC	(16x) 240-pin DDR3, Max. 512GB DDR3 ECC Reg.	(16x) 240-pin DDR3, Max. 512GB DDR3 ECC Reg.	(4x) 240-pin DDR3 Max. 32GB
HARD DRIVES	Up to (6x) SATA2, 500GB, 7200 RPM, 64GB cache standard. In fixed or removable configurations.	Up to (6x) SATA2, 500GB, 7200 RPM, 64GB cache standard. In fixed or removable configurations.	Up to (6x) SATA2, 500GB, 7200 RPM, 64GB cache standard. In fixed or removable configurations.	Up to (6x) SATA2, 500GB, 7200 RPM, 64GB cache standard. In fixed or removable configurations.	Up to (6x) SATA3, 500GB, 7200 RPM, 64GB cache standard. In fixed or removable configurations.
RAID OPTION	JBOD, RAID 0, 1, 5	JBOD, RAID 0, 1, 5	JBOD, RAID 0, 1, 5	JBOD, RAID 0, 1, 5	JBOD, RAID 0, 1, 5
OPTICAL DRIVE	24x DVDRW	24x DVDRW	24x DVDRW	24x DVDRW	24x DVDRW
EXPANSION SLOTS	(1x) PCIe x16 (GEN 2.0), (1x) PCIe x4 (GEN 1.0), (2x) PCIe x1 (GEN 1.0) & (3x) PCI (PCI 2.3)	(3x) PCIe x8 (GEN 3.0), (1x) PCIe x4 (GEN 2.0), (1x) PCIe x1 (GEN 2.0), (1x) PCI (PCI 2.3)	(4x) double-width PCIe x16 (Gen 3.0), (1x) PCIe x8 (Gen 3.0), (1x) PCIe x4 (Gen 2.0)	(10x) PCIe x8 (Gen 3.0), (1x) PCIe x4 (Gen 2.0)	(1x) PCIe x16 (GEN 3.0), (1x) PCIe x4 (GEN 2.0) (1x) x1 (GEN 2.0) (3x) PCI (PCI 2.3)
REAR I/O	(2x) PS/2 ports, (2x) DB-9 RS232 serial ports, (1x) DVI-I port (DVI-D signal only), (1x) DB-15 VGA port, (2x) RJ45 LAN ports, (4x) USB 2.0/1.1 ports, (1x) Mic-in, (1x) line-in and (1x) line out	(1x) DB-9 RS232 serial port, (2x) RJ45 GbE LAN ports, (4x) USB 2.0 ports, (1x) RJ45 dedicated IPMI, DB-15 VGA port, (1x) UID switch	(1x) DB-9 RS232 serial port, (4x) RJ45 GbE LAN ports, (4x) USB 2.0 ports, (1x) DB-15 VGA port	(1x) DB-9 RS232 serial port, (2x) RJ45 GbE LAN ports, (4x) USB 2.0 ports, (1x) RJ45 dedicated IPMI, DB-15 VGA port, (1x) UID switch	(1x) PS/2 ports, (2x) DB-9 RS232 serial ports, (1x) DVI-I port (DVI-D signal only), (1x) HDMI Port, (2x) RJ45 LAN ports, (4x) USB 3.0 ports (2x) USB 2.0 ports, (1x) Mic-in, (1x) line-in and (1x) line out
ON BOARD GRAPHICS	Intel® HD Graphics	Matrox G200eW	Matrox G200	Matrox G200eW	Integrated Intel® HD Graphics DVI-I Out (DVI-D only) HDMI
AUDIO	Realtek® ALC262 Stereo ADCs and S/PDIF Interface	N/A	NA	NA	Realtek® ALC886 5.1 High Definition Audio
LAN	(1x) Realtek® RTL8111DL PCI Express Gigabit Ethernet controller and (1x) Intel® W82578DM with iAMT6.0 Gigabit Ethernet PHY	(2x) Intel® 82574L Gigabit Ethernet controllers, (1x) Realtek® RTL8201N PHY dedicated IPMI	(4x) Gigabit through Intel® i350-AM Quad 10/100/1000 integrated GbE MAC and PHY controller	Dual Intel® i350 Gigabit ethernet ports & (1x) Realtek® RTL8201N PHY (dedicated IPMI)	Intel I210 PCI Express Gigabit Ethernet controller, Intel I217LM with iAMT9.0 Gigabit Ethernet Phy
O/S	Windows XP® Pro, Windows 7® Pro, 32 & 64-bit Other O/S Available	Windows XP® Pro, Windows 7® Pro, 32 & 64-bit Other O/S Available	Windows XP® Pro, Windows 7® Pro, 32 & 64-bit Other O/S Available	Windows XP® Pro, Windows 7® Pro, 32 & 64-bit Other O/S Available	Windows XP® Pro, Windows 7® Pro, 32 & 64-bit Other O/S Available