

# COTS Commercial Grade 5U Rackmount Computer System

MILITARY | INDUSTRIAL | COMMERCIAL



Models C52810, C52811

*Assembled in the USA  
ISO 9001:2008 Certified  
ITAR Registered*

Our C528 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 or Dual Intel® Xeon® E5 Series

## Drive Capacity

- 8(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
- Card Hold-down Brackets

## Environments

Components meet the below specifications.

### HIGH TEMPERATURE

35°/50°C Operational, 70°C Storage

### LOW TEMPERATURE

0°C Operational, -40°C Storage

Contact us today!  
858.571.4330 or [saleseng@chassisplans.com](mailto:saleseng@chassisplans.com)  
[www.chassis-plans.com](http://www.chassis-plans.com)

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## Chassis Specifications

### DIMENSIONS

19" X 8.75" X 26.4" (482.6mm X 222.3mm X 670.6mm)

### WEIGHT

88 pounds, weight varies by configuration

### ENCLOSURE FEATURES

#### Construction

Heavy duty, cold-rolled electroplated steel

#### Front Door

Single door with 1(x) thumb twist keylock  
Removable/washable air filter

#### Drive Capacity

8(x) 5.25" external drive bays  
1(x) 3.5 external drive bay

#### Indicators

Power on, hard drive access, fan activity

#### Switches

System power, system reset, alarm reset switches

### FRONT USB PORTS

NA

### SYSTEM COOLING

(4x) hot swappable 90mm cooling fans, thermal mgmt board

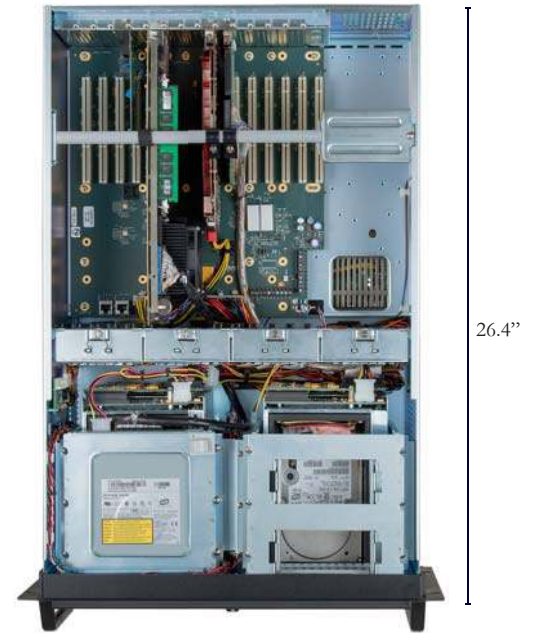
### MOTHER BOARD CAPACITY

Designed for motherboards up to 15" X 13"

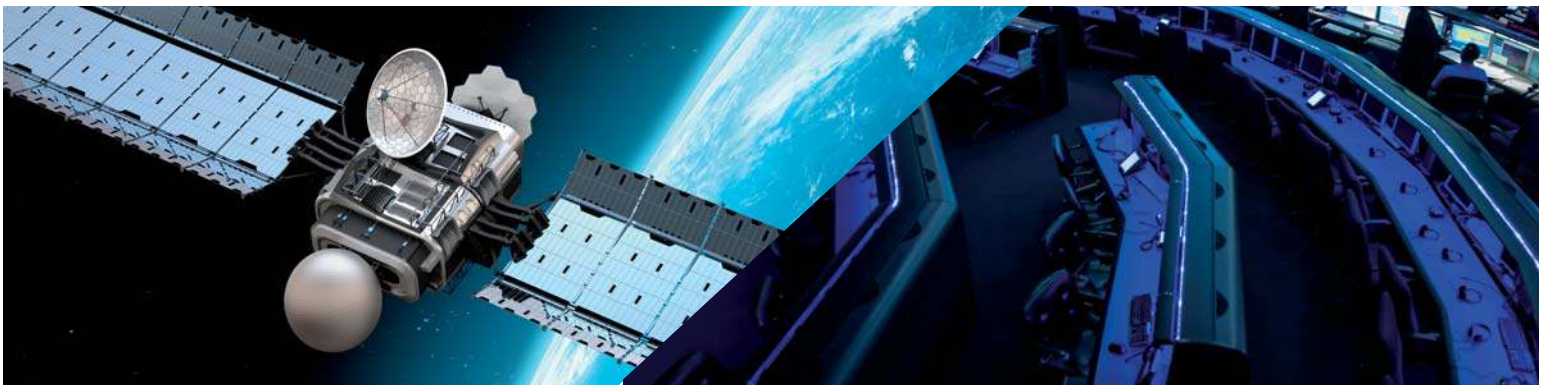
### POWER SUPPLY

N+1 redundant 1500W 110/220 Volt AC  
Other power options available

## C528 Photos



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





## Computer Specifications



	<b>C52810</b>	<b>C52811</b>
<b>CPU</b>	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)
<b>CHIP SET</b>	Intel® C600-A Platform Controller Hub (PCH), QPI up to 8.0 GT/s	Intel® C602 Platform Controller Hub (PCH), QPI up to 8.0 GT/s
<b>MAX RAM</b>	(16x) 240-pin DDR3, Max. 512GB DDR3 ECC Reg.	(16x) 240-pin DDR3, Max. 512GB DDR3 ECC Reg.
<b>HARD DRIVES</b>	Up to (8x) 2.5" SATA2, 500GB, 7200 RPM, 64GB cache standard. In fixed or removable configurations. Other rotating media and solid state storage sizes available	Up to (8x) 2.5" SATA2, 500GB, 7200 RPM, 64GB cache standard. In fixed or removable configurations. Other rotating media and solid state storage sizes available
<b>RAID OPTION</b>	JBOD, RAID 0, 1, 5	JBOD, RAID 0, 1, 5
<b>OPTICAL DRIVE</b>	24x DVD RW	24x DVD RW
<b>EXPANSION SLOTS</b>	(4x) 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)
<b>REAR I/O</b>	(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
<b>ON BOARD GRAPHICS</b>	Matrox G200	Matrox G200eW
<b>AUDIO</b>	NA	NA
<b>LAN</b>	(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)
<b>O/S</b>	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

## 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.

### ENGINEERED TO YOUR SPECIFICATIONS

- In-house engineering department
- Design and build of rapid prototypes. Experience with solving difficult customer application problems through knowledge of the industry and custom system design and manufacturing capability
- Our Engineers use Solid Works 3D CAD modeling software for mechanical design and thermal simulation
- Design experience with MIL-STD-167, MIL-STD-461, MIL-STD-810, and MIL-S-901, in addition to FCC, UL, CE, and country specific agency requirements

### 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.

### FACILITY AND TEST

- All integration work is performed in a state-of-the-art, ESD-controlled facility
- Our facility has 23,000 sqft and has dedicated 12,000 sqft to manufacturing and 3,000 sqft to engineering
- Operate to anti-static standard ANSI/ESD S20.20-2007 and electronics assembly standard IPC-A-610, Revision E-2010

### QUALITY COUNTS

- ISO 9001:2008 Certified
- 100% system inspection before shipment
- All integrated systems undergo a minimum 24-hour system test and burn-in before shipment to the customer
- Assistance with 3rd party verification of system specifications
- 2-year warranty on all integrated systems and LCD monitor products
- Assembled in the USA



**Contact us today!**  
858.571.4330 or [saleseng@chassisplans.com](mailto:saleseng@chassisplans.com)  
[www.chassis-plans.com](http://www.chassis-plans.com)

### Chassis Plans

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