

Modern Server Hardware

Reliable Server Deployment

Sample Specifications

The screenshot displays the Dell website's 'PowerEdge Servers' section. The browser address bar shows the URL www.dell.com/en-us/work/shop/servers-storage-and-networking/sc/servers. The page features a blue header with the Dell logo, a search bar, and links for 'Sign In' and 'Cart'. Below the header, a navigation bar includes 'Products', 'Solutions & Services', 'Support', and 'Deals'. A promotional banner offers 'Free ProSupport' on select business PCs. The main content area is titled 'Dell PowerEdge Servers' and contains seven category tiles: 'Shop All', 'PowerEdge Tower Servers' (For value and flexibility), 'PowerEdge Rack Servers' (Innovative designs to Transform IT), 'Modular Infrastructure' (For high-density computing), 'Systems Management Software' (For data centers), 'Data Center Infrastructure', and 'Server Deals' (For current Server Deals). An 'Intel Xeon Scalable Processors' badge is visible on the right. At the bottom, a Windows activation banner reads 'Activate Windows - Go to Settings to activate Windows.' The Windows taskbar at the very bottom shows the search bar, taskbar icons, and system tray with the time 10:53 AM on 2/6/2018.

Dell PowerEdge Servers

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Dell PowerEdge Servers

- Shop All**
- PowerEdge Tower Servers**
For value and flexibility
- PowerEdge Rack Servers**
Innovative designs to Transform IT
- Modular Infrastructure**
For high-density computing
- Systems Management Software**
For data centers
- Data Center Infrastructure**
- Server Deals**
For current Server Deals

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Activate Windows
Go to Settings to activate Windows.

PowerEdge Tower

Type here to search

10:53 AM 2/6/2018

Dell PowerEdge Servers | PowerEdge T330 Tower S

www.dell.com/en-us/work/shop/servers-storage-and-networking/poweredge-t330-tower-server/spd/poweredge-t330/pe_t330_1029?view=configurations

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PowerEdge T330 Tower Server

Powerful, efficient, versatile.

Drive SMB and remote office/branch office applications faster and grow your data with a powerful and expandable 1-socket tower server.

Starting at \$679.00

Activate Windows
Go to Settings to activate Windows.

Waiting for analytics.wywy.com...

Type here to search

10:55 AM 2/6/2018

Dell PowerEdge Servers
PowerEdge T330 Tower S

www.dell.com/en-us/work/shop/servers-storage-and-networking/poweredge-t330-tower-server/spd/poweredge-t330/pe_t330_1029?view=configurations

Tech Specs & Customization
Product Details
Awards & Reviews
Drivers, Manuals & Support

[Customize](#)

Base

PowerEdge T330 Server

Trusted Platform Module (TPM)

None
\$0.00

No Trusted Platform Module
Included in price

Trusted Platform Module 1.2 FIPS Common Criteria
+ \$36.52

Trusted Platform Module 2.0
+ \$36.52

Chassis

[Help Me Choose](#)

Chassis with up to 4, 3.5" Hot Plug Hard Drives, Embedded SATA, Tower Configuration
Included in price

Chassis with up to 8, 3.5" Hot Plug Hard Drives, Tower Configuration
+ \$30.95

Chassis with up to 4, 3.5" Hot Plug Hard Drives, Embedded SATA, Rack Configuration
+ \$105.22

Chassis with up to 8, 3.5" Hot Plug Hard Drives, Rack Configuration
+ \$136.17

Processor

[Help Me Choose](#)

2 Core

Intel Celeron G3900 2.8GHz, 2M cache, 2C/2T, no turbo (5110)
Included in price

PowerEdge T330 Tower Server

[View Special Offers](#)

Starting at Price
\$1,097.00

Total Savings
\$418.00

Standard Delivery
Free

Dell Price
\$679.00

Dell Business Credit

As low as \$21/mo.* | Apply

★ Get up to \$20 back in rewards

Ships in 3–5 business days

Order Code pe_t330_1029

Add to Cart

Review Summary

Activate Windows
Go to Settings to activate Windows.

Type here to search

10:56 AM
2/6/2018

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4

Dell PowerEdge Servers
PowerEdge T330 Tower S

www.dell.com/en-us/work/shop/servers-storage-and-networking/poweredge-t330-tower-server/spd/poweredge-t330/pe_t330_1029?view=configurations

Tech Specs & Customization

Product Details

Awards & Reviews

Drivers, Manuals & Support

☒ Intel Celeron G3900 2.8GHz, 2M cache, 2C/2T, no turbo (51W) **Included in price**

☐ Intel Pentium G4500 3.5GHz, 3M cache, 2C/2T, no turbo (51W) + \$24.76

☐ Intel Core i3 6100 3.7GHz, 3M cache, 2C/4T, no turbo (51W) + \$99.03

☐ Intel Core i3 7100 3.9GHz, 3M cache, 2C/4T, no turbo (51W) + \$111.41

☐ Intel Pentium G4600 3.6GHz, 3M cache, 2C/4T, no turbo (51W) + \$30.95

[▼ more](#)

Intel® Xeon® E3 v5 Processors

☐ Intel® Xeon® E3-1220 v5 3.0GHz, 8M cache, 4C/4T, turbo (80W) + \$160.93
Dell Recommended

☐ Intel® Xeon® E3-1225 v5 3.3GHz, 8M cache, 4C/4T, turbo (80W) + \$179.50

☐ Intel® Xeon® E3-1230 v5 3.4GHz, 8M cache, 4C/8T, turbo (80W) + \$210.44

☐ Intel® Xeon® E3-1240 v5 3.5GHz, 8M cache, 4C/8T, turbo (80W) + \$235.20

☐ Intel® Xeon® E3-1270 v5 3.6GHz, 8M cache, 4C/8T, turbo (80W) + \$290.91

PowerEdge T330 Tower Server

View Special Offers

Starting at Price ~~\$1,097.00~~
Total Savings \$418.00
Standard Delivery **Free**
Dell Price \$679.00

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in rewards

Ships in 3–5 business days

Order Code pe_t330_1029

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PowerEdge T330 Tower S

www.dell.com/en-us/work/shop/servers-storage-and-networking/poweredge-t330-tower-server/spd/poweredge-t330/pe_t330_1029?view=configurations

Tech Specs & Customization
Product Details
Awards & Reviews
Drivers, Manuals & Support

Cooling
None Included in price
Fresh Air Cooling \$0.00

Memory DIMM Type and Speed
2400MT/s UDIMMs

Memory Configuration Type
Performance Optimized

Memoryⁱ
[Help Me Choose](#)

☒ 4GB (1x4GB) 2400MT/s DDR4 ECC UDIMM \$104.60 /ea. Qty. 1
☐ 8GB (1x8GB) 2400MT/s DDR4 ECC UDIMM \$117.60 /ea. Qty. 1 **Dell Recommended**
☐ 16GB (1x16GB) 2400MT/s DDR4 ECC UDIMM \$210.45 /ea. Qty. 1

RAID
[Help Me Choose](#)

☒ No RAID with Embedded SATA Included in price
☐ RAID 0, S130 \$0.00
☐ RAID 1, S130 \$0.00
☐ RAID 5, S130 \$0.00

PowerEdge T330 Tower Server

[View Special Offers](#)

Starting at Price \$1,097.00
Total Savings \$418.00
Standard Delivery Free
Dell Price \$679.00

Dell Business Credit
As low as \$21/mo.* | [Apply](#)

★ Get up to \$20 back in rewards

Ships in 3–5 business days
Order Code pe_t330_1029

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Review Summary

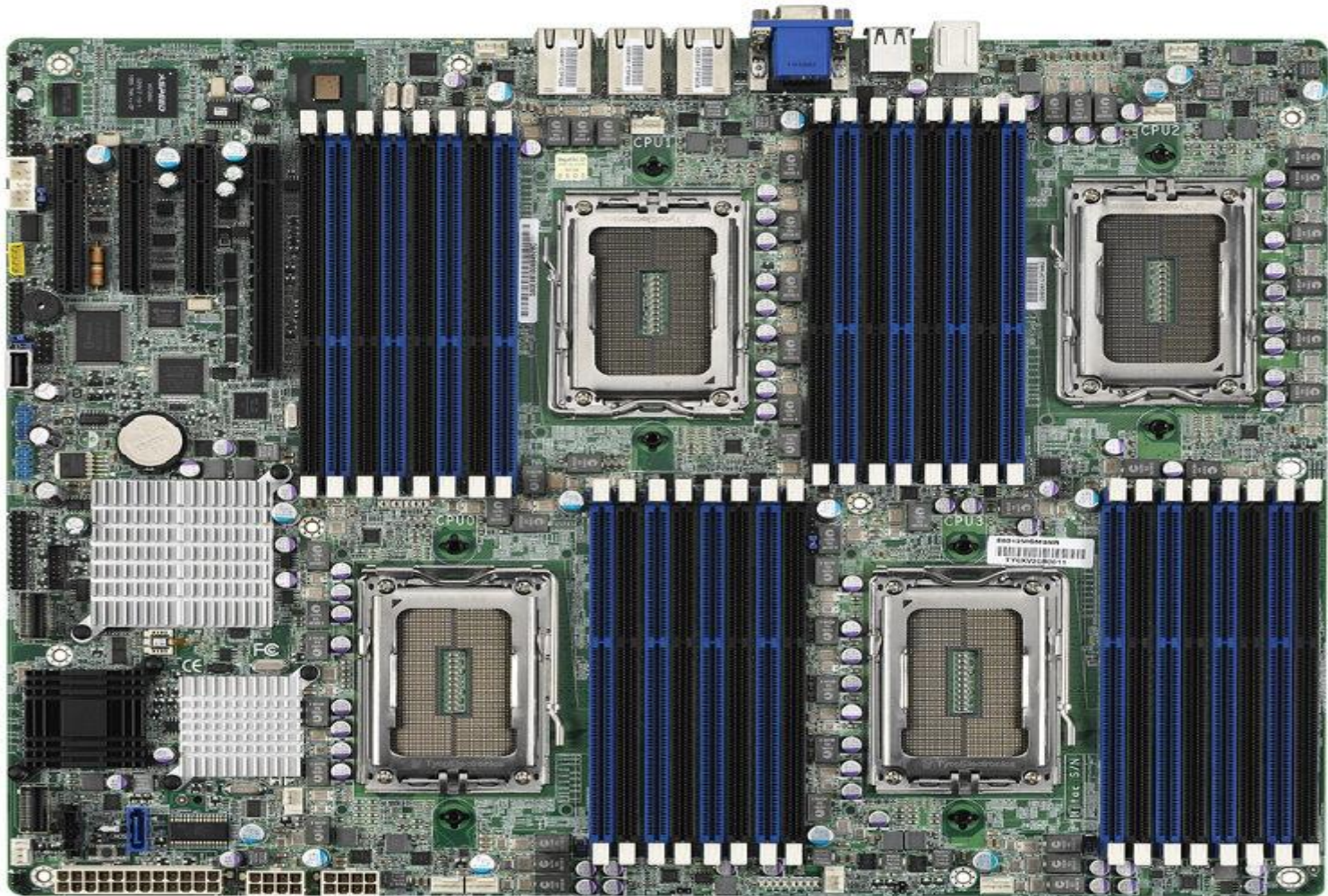
Activate Windows
Go to Settings to activate Windows.

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10:56 AM 2/6/2018

Multi Processor vs Multi Cores



Identify Failure Points

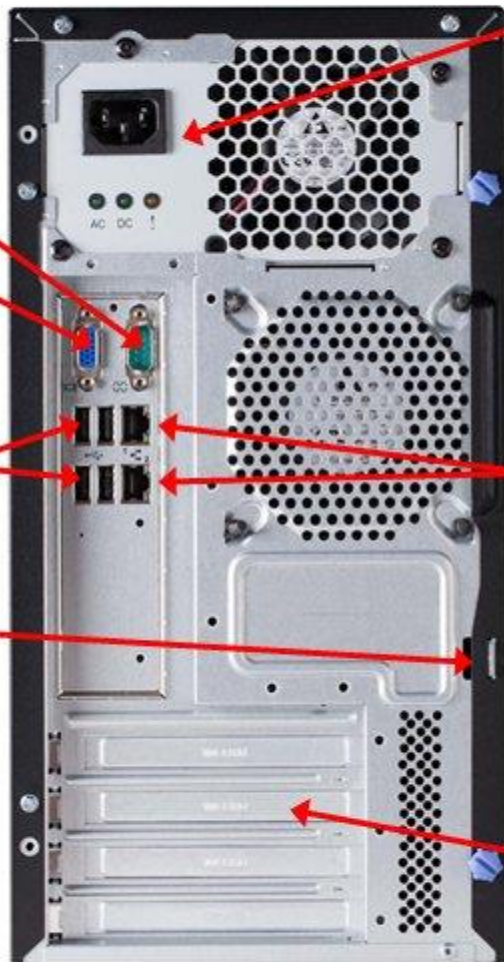
(1) Power Supply Failure

- Dual Power Supply
- Hot Plug Power Supply

Serial port
Video port

4x USB 2.0

Loop for
cover lock



**Models with a fixed
power supply**

2x hot-swap redundant
power supplies

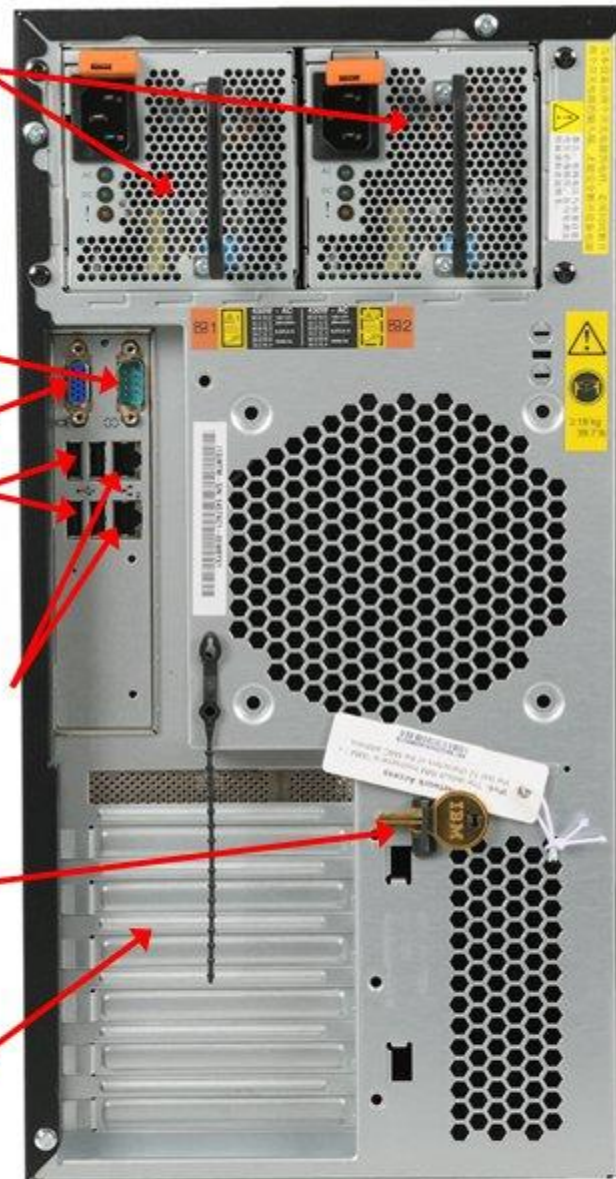
Fixed power
supply

Serial port
Video port
4x USB 2.0

2x Ethernet ports
(one shared with
IMM2)

Key for
cover lock

4x PCIe slots



**Models with hot-swap
power supplies**

Identify Failure Points

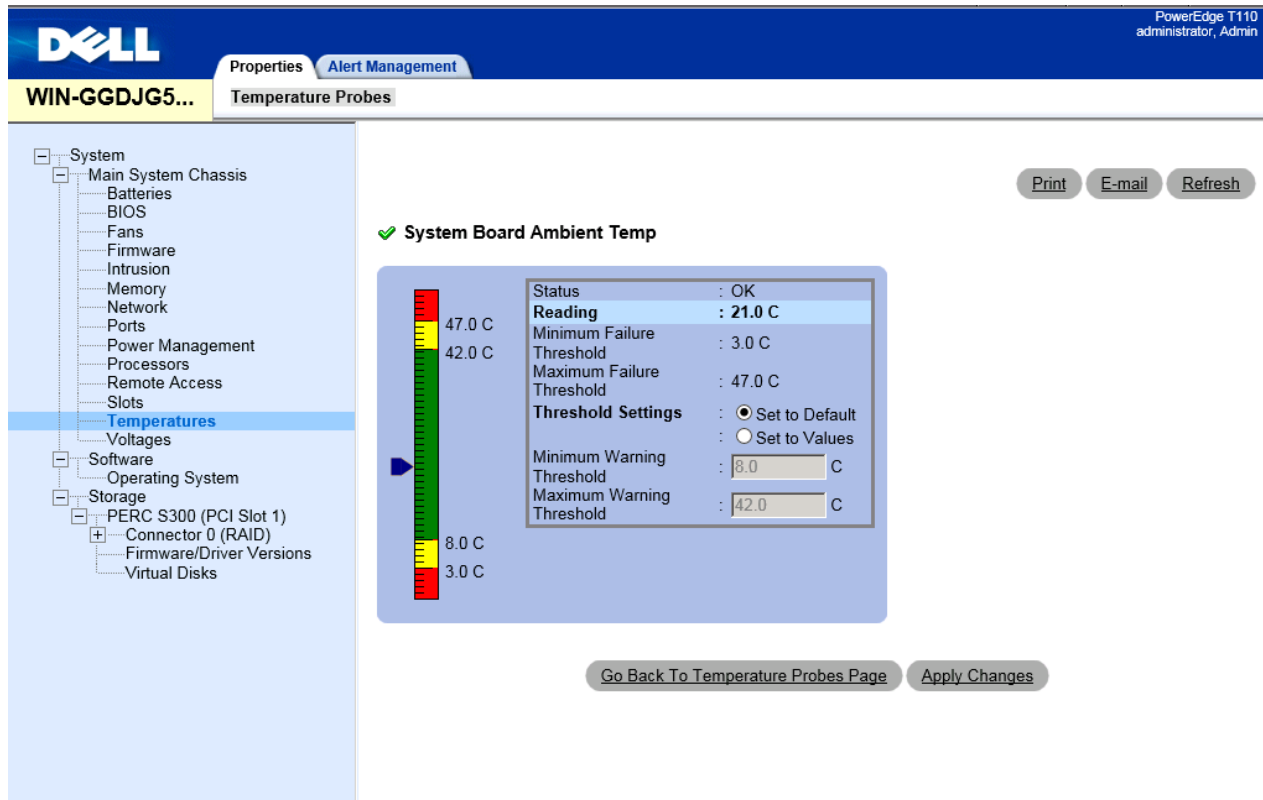
- (2) Power Failure
 - Alternate Power Planning
 - UPS
 - Switching time
 - Backup time
 - Load capacity
 - » Lights->LED Lights
 - Generator
 - Long term backup
 - Auto start feature
 - Noisy
 - » Soundproof Canopy
 - » Other dangers



Identify Failure Points

- (3) Cooling Failure
 - Air Conditioning failure
 - Multiple units on different power lines
 - Tower casing – more effective blowers
 - Temperature Readings
 - Proper/Regular Cleaning of Chassis/Casings

Temperature Readings



Identify Failure Points

- (4) Disk Failures
 - Use RAID configurations
 - RAID Levels
 - Hot Pluggable Disks
 - Hot Spare
 - Auto Disk Replacement

- Multiple physical disks for backup
- Offsite backups
- Backup on non volatile media
- Disk cloning techniques
- Virtualization techniques for data replication

Virtualizations

- Efficient resource utilization
- Easy upgrade to new hardware
- Bare metal deployment

- Requirements
 - Multi cores
 - Ample amount of RAM

Server Enclosure Safety

- Security Bezel



Secure OD Deployment

- Setup
- Firewall configurations
- Processes

New Disk Types



HDD



SSD

- Type of access
- Expected life of data
- Power consumption
- Noise
- Heating/Cooling
- Reliability
- Capacity
- Cost



More Storage Requirement

- Increasing disk capacity
 - RAID 0
 - stripping
- GPT

Life Cycle Controllers

