# Dell PowerEdge T20 mini-tower server: FAQ

**What is the Dell™ PowerEdge™ T20?**
The Dell PowerEdge T20 is an entry-level uniprocessor server designed for the cost-sensitive small offices/home offices (SOHOs) needing to get organised, boost collaboration and optimise productivity. The PowerEdge T20 enables users to consolidate data and applications from multiple desktops and workstations onto a single server, likely the first server for their business or organisation.

**What customer environments are ideal for the PowerEdge T20?**
The PowerEdge T20 is a general-purpose one-socket server that is an excellent fit as a first server (or replacement entry-level server) for SOHO business users.

**What pain points are faced by users in SOHO environments?**
- Misplaced or lost data, files and images
- Challenges to collaboration due to limited file sharing
- Limited storage capacity that inhibits growth
- Time and cost to manage multiple desktops, laptops and/or tablets

**How does the PowerEdge T20 resolve those pain points?**
- Eliminates misplaced or lost data by consolidating data and files onto a central server
- Enhances collaboration and productivity by helping your customers to easily share data and applications from a central server; your customers can also opt for an integrated collaboration suite (for example, Microsoft® Windows Small Business Server) to enable email, remote access, and automatic backup and restoration of data
- Offers ample storage to grow over time
- Allows your customers to attach external devices quickly and flexibly
- Saves your customers time with management of one system instead of multiple devices
- Installs almost anywhere: beside, under or on top of a desk or counter in your customer's small or home office; the compact mini-tower form factor and quiet acoustics allow for flexible installation options

**What design features enable the PowerEdge T20 to deliver those benefits?**
- Consolidates data and media files with up to six internal hard drive bays, supporting large storage capacity
- Drives applications and media faster with powerful, multicore Intel® processors
- Helps your customers to experience faster application response times with four dual in-line memory module (DIMM) slots, supporting large memory capacity
- Offers more I/O (input/output) expansion and flexibility with four PCI/PCI Express (PCIe) slots
- Provides ample ports to quickly attach more devices with 12 USB ports, four of which are USB 3.0

**Why should your customers choose the PowerEdge T20 over the HP alternatives?**
- The Dell PowerEdge T20 can drive your customers' applications and media faster with up to 100 percent more Intel® Xeon® processor cores than HP® ProLiant® MicroServer Gen8.[1]
- With the PowerEdge T20, your customers will experience faster application response times and crisper video performance with 100 percent more DIMM slots and up to 100 percent more memory capacity compared to HP ProLiant MicroServer.[1]
- Your customers can also:
  - Consolidate even more data and media files on the Dell PowerEdge T20, with 50 percent more hard drives than HP ProLiant MicroServer Gen8.[1]
  - Gain more I/O expansion on the Dell PowerEdge T20 with four times as many I/O slots as the HP ProLiant MicroServer Gen8.[1]
  - Attach more devices on the Dell PowerEdge T20 with 70 percent more USB ports than the HP ProLiant MicroServer Gen8.[1]
  - Drive faster video and graphics performance and attach more devices on PowerEdge T20 with more total USB ports, including 50 percent more USB 3.0 ports on the PowerEdge T20 than on the HP ProLiant MicroServer Gen8.[1]

**Which configurations are available for PowerEdge T20?**
- The PowerEdge T20 is available in three fixed configurations

| Configuration | Description |
|---|---|
| 1 | • **1 x CPU Intel® Pentium®**<br>• **1 x 4GB DIMM**<br>• **No hard disk drive (HDD)**<br>• **No optical disk drive (ODD)** |
| 2 | • **1 x CPU Intel Pentium**<br>• **1 x 4GB DIMM**<br>• **1 x 500GB HDD client HDD**<br>• **No ODD** |
| 3 | • **1 x CPU Intel Xeon E3 v3**<br>• **1 x 4GB DIMM**<br>• **1 x 1TB HDD client HDD**<br>• **No ODD** |
| **Options** | • **ODD**<br>• **Second to fourth DIMM**<br>• **Second to sixth HDD**<br>• **Operating system** |

**How can users round out the configuration of their PowerEdge T20 to fit their specific needs?**
- Your technically adept customers can order and install the desired options themselves.
- Users can also call on an authorised Dell Channel partner like yourself to tailor the PowerEdge T20 configuration to their specific needs. Your customers may also require ongoing support, including help to do the following:
  - Install additional memory and hard drives.
  - Install operating system and application software.
  - Acquire additional external devices, such as laptops, desktops, printers, projectors and more.
  - Obtain deployment services to get up and running.
  - Access support services to keep them run smoothly over time.

**Why will businesses and organisations want to upgrade from multiple desktops and workstations to the PowerEdge T20 as their first server?**
- **Simplicity and efficiency**
  - Consolidate data and applications on multiple desktops onto a single server.
  - Protect and back up data on a single server rather than multiple devices.
  - Manage and perform software updates to a single server rather than multiple workstations.
- **Productivity**
  - Share data and applications on a central server.
  - Opt for an integrated collaboration suite (for example, Microsoft Windows Small Business Server) to enable email, remote access, and automatic backup and restore of data.
- **Security**
  - Keep data secure and control file access with built-in security capabilities.
  - Make copies of data automatically to prevent downtime in the event of a hard drive failure.
- **Growth**
  - Gain ample performance headroom, data storage capacity and I/O bandwidth that can grow with your customers over time.

**The PowerEdge T110 II and PowerEdge T320 are also one-socket tower servers. What happens to them in light of the PowerEdge T20 announcement?**
The PowerEdge T110 II and PowerEdge T320 continue as sustaining products. The PowerEdge T20 complements them as it gives Dell partners a new, smaller, mini-tower form factor to capture growth in that space.

**What are the dimensions of the PowerEdge T20 server?**

| Chassis dimensions: (HxWxD) | |
| --- | --- |
| Height | 14.17 in. (36 cm) |
| Width | 6.89 in. (17.5 cm) |
| Depth | 17.12 in. (43.5 cm) |

**What processors does the PowerEdge T20 support?**
The PowerEdge T20 supports a single processor from one of the following offerings:
- **Intel Xeon E3-1225 v3** — 3.2GHz; 8M cache; four cores/four threads; 1600GHz memory speed, Double Data Rate 3 (DDR3) ; two internal graphic engines; turbo mode; hyperthreading; 84W
- **Intel Pentium G3220** — 3.00GHz; 3M cache; two cores/two threads; 1333GHz memory speed, Double Data Rate 3 (DDR3); Intel® HD Graphics; 54W

**What operating systems are supported by the PowerEdge T20?**
- Microsoft® Windows Server® 2012
- Red Hat® Enterprise Linux® 6.5 and above

**For more information about the Dell PowerEdge T20 mini-tower server and to obtain related sales tools, please visit the Partner Portal or contact your local Dell account representative.**

1. Based on Dell Server Technical Marketing and Messaging analysis of the Dell PowerEdge T20 compared to the publicly available HP ProLiant MicroServer data sheet as of June 2012: http://h18004.www1.hp.com/products/quickspecs/DS_00202/DS_00202.pdf. Computational resource usage depends on application requirements and may result in varying performance.