

# HP Pro SFF 290 G9 Desktop PC

## Essential business computing

The HP Pro SFF 290 helps optimize business resources. Equipped with a powerful Intel® processor<sup>2</sup>, essential tools, and security features for business, this affordably priced and easy to set up PC has a scalable and functional design that can grow with your business.

### Powered for performance

Choose an Intel® Core™ processor<sup>2</sup> for effective performance. With up to 64 GB of memory<sup>3</sup>, optional M.2 NVMe SSD<sup>3</sup>, and discrete graphics<sup>3</sup> you can easily manage your daily business.

### Expansion for the future

Choose any combination of two HDDs or SSDs.<sup>3</sup> With two bays and two full-height slots, you can provide expandability for the future, while configurable USB ports<sup>3</sup> help ensure broad compatibility with existing technology.

### Help keep data safe

Help protect your investment and your data with firmware TPM, HP DriveLock<sup>4</sup>, and a physical security lock slot.<sup>5</sup> Additional security is provided by an integrated cable lock system to secure your cabled devices.



\*Product image may differ from actual product

## Sustainability in action

### Help protect our shared future

Keep sustainability in mind with the HP Pro SFF 290 that comes with a 92 percent sustainably sourced and recyclable outer box and contains molded Pulp cushions made from 100% recycled wood fiber and organic materials.<sup>6</sup>



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## Featuring

### HP Recommends Windows 11 Pro for Business

Work anywhere without compromising on performance with Windows 11 and HP collaboration, security, and connectivity technology.<sup>1</sup>

### Latest Intel® multi-core processor

Configure your HP Pro SFF 290's CPU for the perfect combination of power, snappy performance, and value. With an Intel® Core™ processor and up to 64 GB memory, handle multiple work tasks smoothly and reliably.<sup>2,3</sup>

### Peripheral support

Support two independent displays with VGA and HDMI connectivity. Make connections to peripherals with several USB ports, including four front USB 2.0 and four rear USB 2.0 ports.

### Help secure your drive

Help keep unauthorized users from accessing data on your primary drive. Prevent your primary drive from running without entering a password using HP DriveLock.<sup>4</sup>

### Simple PC management made

Spend less time and get right to the updates you need with HP Support Assistant.<sup>9</sup>

### Integrated security

Help secure your PC with a physical security lock slot, an optional intrusion sensor, and an integrated accessory cable lock to secure your cabled mouse and keyboard on the HP Pro SFF 290.<sup>5,6</sup>



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## Technical specifications

<b>Available Operating Systems</b>	Windows 11 Pro <sup>1</sup> Windows 11 Home – HP recommends Windows 11 Pro for business <sup>1</sup> Windows 11 Pro <sup>1,2,21</sup> FreeDOS
<b>Processor family</b>	Intel® Pentium® processor Intel® Celeron® processor 13th Generation Intel® Core™ i7 processor 13th Generation Intel® Core™ i5 processor 13th Generation Intel® Core™ i3 processor 12th Generation Intel® Core™ i7 processor 12th Generation Intel® Core™ i5 processor 12th Generation Intel® Core™ i3 processor Intel® Core™ i3 14th generation processor Intel® Core™ i5 14th generation processor Intel® Core™ i7 14th generation processor
<b>Available Processors</b> <sup>3,4,5</sup>	Intel® Pentium® Gold G7400 with Intel® UHD Graphics (3.7 GHz P-core base frequency, 6 MB L3 cache, 2 P-cores, 4 threads) Intel® Celeron® G6900 with Intel® UHD Graphics (3.4 GHz P-core base frequency, 4 MB L3 cache, 2 P-cores, 2 threads) Intel® Core™ i5-12500 with Intel® UHD Graphics (3.0 GHz P-core base frequency, up to 4.6 GHz P-core Max Turbo frequency, 18 MB L3 cache, 6 P-cores, 12 threads), supports Intel® vPro® Technology Intel® Core™ i5-12400 with Intel® UHD Graphics (2.5 GHz P-core base frequency, up to 4.4 GHz P-core Max Turbo frequency, 18 MB L3 cache, 6 P-cores, 12 threads) Intel® Core™ i3-12100 with Intel® UHD Graphics (3.3 GHz P-core base frequency, up to 4.3 GHz P-core Max Turbo frequency, 12 MB L3 cache, 4 P-cores, 8 threads) Intel® Core™ i7-12700 with Intel® UHD Graphics (1.6 GHz E-core base frequency, 2.1 GHz P-core base frequency, up to 3.6 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, up to 4.9 GHz with Intel® Turbo Boost Technology, 25 MB L3 cache, 8 P-cores and 4 E-cores, 20 threads), supports Intel® vPro® Technology Intel® Core™ i3-13100 (3.4 GHz P-core base frequency, up to 4.5 GHz P-core Max Turbo frequency, 12 MB L3 cache, 8 P-cores and 0 E-cores, 8 threads) Intel® Core™ i5-13400 (1.8 GHz E-core base frequency, 2.5 GHz P-core base frequency, up to 3.3 GHz E-core Max Turbo frequency, up to 4.6 GHz P-core Max Turbo frequency, 20 MB L3 cache, 6 P-cores and 4 E-cores, 16 threads) Intel® Core™ i5-13500 (1.8 GHz E-core base frequency, 2.5 GHz P-core base frequency, up to 3.5 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 20 threads), supports Intel® vPro® Technology Intel® Core™ i7-13700 (1.5 GHz E-core base frequency, 2.1 GHz P-core base frequency, up to 4.1 GHz E-core Max Turbo frequency, up to 5.1 GHz P-core Max Turbo frequency, up to 5.2 GHz with Intel® Turbo Boost Technology, 30 MB L3 cache, 8 P-cores and 8 E-cores, 24 threads), supports Intel® vPro® Technology Intel® Core™ i3-14100 (3.5 GHz P-core base frequency, up to 4.7 GHz P-core Max Turbo frequency, 12 MB L3 cache, 4 P-cores and 0 E-cores, 8 threads) Intel® Core™ i7-14700 with Intel UHD Graphics (1.5 GHz E-core base frequency, 2.1 GHz P-core base frequency, up to 4.2 GHz E-core Max Turbo frequency, up to 5.3 GHz P-core Max Turbo frequency, 33 MB L3 cache, 8 P-cores and 12 E-cores, 28 threads), supports Intel® vPro® Technology Intel® Core™ i5-14500 with Intel UHD Graphics (1.9 GHz E-core base frequency, 2.6 GHz P-core base frequency, up to 3.7 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 20 threads), supports Intel® vPro® Technology Intel® Core™ i5-14400 with Intel UHD Graphics (1.8 GHz E-core base frequency, 2.5 GHz P-core base frequency, up to 3.5 GHz E-core Max Turbo frequency, up to 4.7 GHz P-core Max Turbo frequency, 20 MB L3 cache, 6 P-cores and 4 E-cores, 16 threads)
<b>Chipset</b> <sup>3</sup>	Intel® H670
<b>Form factor</b>	Small form factor
<b>Maximum memory</b>	32 GB DDR4-3200 SDRAM; <sup>6</sup> Transfer rates up to 3200 MT/s.
<b>Memory slots</b>	2 DIMM
<b>Internal storage</b>	up to 2 TB 7200 rpm SATA HDD <sup>7,20</sup> 256 GB up to 512 GB PCIe® NVMe™ M.2 SSD <sup>7,20</sup> 128 GB up to 128 GB PCIe® NVMe™ TLC M.2 SSD <sup>7,20</sup>
<b>Available Graphics</b>	Integrated: Intel® UHD Graphics 730; Intel® UHD Graphics 770; Intel® UHD Graphics 710 <sup>22</sup> Discrete: NVIDIA® Quadro® T400 (4 GB GDDR6 dedicated); AMD Radeon™ RX 6300 Graphics (2 GB GDDR6 dedicated)
<b>Audio</b>	Realtek ALC3867 codec, universal audio jack with CTIA headset support, audio line-out rear ports (3.5 mm), multi-streaming capable
<b>Expansion slots</b>	2 M.2; 1 PCIe 3 x1; 1 PCIe 4 x16 <sup>9,10,11</sup> (1 M.2 slot for WLAN and 1 M.2 2242/2280 slot for storage.)
<b>Ports and connectors</b>	Front: 4 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo ; Rear: 4 USB 2.0 Type-A; 1 HDMI; 1 RJ-45; 1 VGA; 1 power connector; 1 line in; 1 line out; 1 Serial (optional) <sup>11</sup> ; Optional Ports: 1 4x serial; 1 parallel
<b>Input devices</b>	HP 125 Wired Keyboard; HP 125 Wired Mouse
<b>Communications</b>	LAN: Integrated 10/100/1000M GbE ; WLAN: Realtek RTL8821CE 802.11a/b/g/n/ac (1x1) Wi-Fi® and Bluetooth® 4.2 wireless card; Realtek RTL8822CE 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 wireless card; Realtek Wi-Fi 6 RTL8852BE 802.11a/b/g/n/ax (1x1) and Bluetooth® 5.3 wireless card
<b>Drive Bays</b>	One 3.5" HDD
<b>Environmental</b>	Operating temperature: 0 to 40°C; Operating humidity: 10 to 90% RH
<b>Software</b>	Bing search for IE11; HP Audio Switch; HP Documentation; HP Support Assistant; McAfee LiveSafe™; Buy Office (sold separately); HP JumpStarts; HP Setup Integrated OOB; Xerox® DocuShare® 30 day free trial offer <sup>12,13</sup>
<b>Security management</b>	Padlock loop; Trusted Platform Module (TPM) 2.0; Integrated accessories cable lock; Slim cable lock



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<b>Power</b>	180 W internal power supply, up to 90% efficiency, active PFC <sup>17</sup>
<b>Dimensions</b>	9.5 x 30.3 x 27 cm; (System dimensions may fluctuate due to configuration and manufacturing variances.); 19.6 x 49.8 x 34.6 cm (Package)
<b>Weight</b>	4.2 kg; (Configured with 1 HDD and 1 ODD. Weight will vary by configuration.)
<b>Ecolabels</b>	CECP; EPEAT® registered; SEPA <sup>18</sup>
<b>Energy star certified</b>	ENERGY STAR® certified
<b>Sustainable impact specifications</b>	15% post-consumer recycled plastic; 80 Plus® Bronze power supplies available <sup>19</sup>
<b>Warranty</b>	1 year (1/1/1) limited warranty includes 1 year of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.



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## Footnotes

### Messaging Footnotes

<sup>2</sup> Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

<sup>3</sup> Optional feature that must be configured at the time of purchase.

<sup>4</sup> HP Drive Lock is not supported on NVMe drives.

<sup>5</sup> Solenoid lock and cable required and sold separately.

<sup>6</sup> 92 percent outer box packaging made from sustainably sourced certified and recycled fibers. Molded Pulp cushions made from 100% recycled wood fiber and organic materials.

<sup>1</sup> Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

<sup>4</sup> HP DriveLock is not supported on NVMe drives.

<sup>9</sup> Internet access required.

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<sup>1</sup> Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

<sup>2</sup> This system is preinstalled with Windows 10 Pro software and also comes with a license for Windows 11 Pro software and provision for recovery software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

<sup>3</sup> Intel vPro<sup>®</sup> requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro<sup>®</sup> Essentials and Enterprise vary. See <http://intel.com/vpro>.

<sup>4</sup> Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology.

Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

<sup>5</sup> Intel<sup>®</sup> Turbo Boost technology requires a PC with a processor with Intel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See [www.intel.com/technology/turboboost](http://www.intel.com/technology/turboboost) for more information.

<sup>6</sup> Full availability of 4 GB or more of memory requires a 64-bit operating system. With Windows 32-bit operating systems, the amount of usable memory is dependent upon your configuration, so that above 3 GB all memory may not be available due to system resource requirements. Memory modules support data transfer rates up to 3200 MT/s; actual data rate is determined by the system's configured processor. See processor specifications for supported memory data rate.

<sup>7</sup> For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows) of disk is reserved for system recovery software.

<sup>8</sup> Optical drives are optional or add on features. Duplication of copyrighted material is strictly prohibited. Actual speeds may vary. Double Layer media compatibility will widely vary with some home DVD players and DVD-ROM drives.

<sup>9</sup> Card sold separately.

<sup>10</sup> 4 serial port: optional via PCIe slot, and only available for specific region.

<sup>11</sup> HDMI/VGA ports will be covered up when a non-internal graphics processor is configured on shipped machine.

<sup>12</sup> McAfee LiveSafe™: subscription required.

<sup>13</sup> Simply sign up and start using Xerox<sup>®</sup> DocuShare<sup>®</sup> Go. No credit card. No obligation. Data will become unavailable unless a subscription is entered before the end of the 90 day free trial period. See [www.xerox.com/docusharego](http://www.xerox.com/docusharego) for details.

<sup>14</sup> Security cable lock supported (sold separately).

<sup>15</sup> TPM feature will be supported on machine pre-configured with FreeDOS, and will be default set as enabled in BIOS setup menu if the machine is dTPM, but will be default set as disabled in BIOS setup menu if the machine is fTPM.

<sup>16</sup> Physical cable lock for cable management.

<sup>17</sup> All power supplies are not available in every region.

<sup>18</sup> Based on US EPEAT<sup>®</sup> registration according to IEEE 1680.1-2018 EPEAT<sup>®</sup>. EPEAT<sup>®</sup> status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.

<sup>19</sup> Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.

<sup>20</sup> Starting November 1st, 2023, HP PCs with Windows require Windows to be installed on SSD. HDD can only be configured as additional data drives and not as the boot drive.

<sup>21</sup> For select SKU only.

<sup>22</sup> NVIDIA<sup>®</sup> Quadro<sup>®</sup> T400, only available for specific models.

