

## **Overview**

#### HP's best-selling workhorse, now more powerful

This high-performance desktop workstation does it all. Tackle advanced workflows—from rendering and simulation to advanced video editing and massive dataset preparation. The Z4 G5 accelerates workflows across a wide range of professional apps and provides plenty of room to expand as work evolves.

# Professional performance. Whisper quiet acoustics

Render, simulate or analyze faster with highend GPUs, an Intel® Xeon® CPU, and impressive memory and storage.

#### Upgrade and expand with ease

Evolve your PC with space for high-end GPUs, loads of memory and storage, plus front-accessible NVMe drives.

# Comprehensive security. Reliability you can trust

Trust the 360K hours of testing, certifications for pro apps, and world-class HP Wolf Security for Business[5].

#### Maximize your IT lifecycle

Designed for simpler IT management, the Z4 is built for longevity with a 3 year lifecycle—longer than entry workstations. Plan for the future and avoid re-qualifying devices every year, saving you serious time and money.

#### **Features**

#### Windows 11

Work anywhere without compromising on performance or security with Windows 11 powered by HP's collaboration and connectivity technology.

#### Intel® Xeon® W processor

Get optimized performance whether your professional application utilizes high core count or high frequency with the Intel® Xeon® W processor. [1]

#### Security is your top priority

The HP Wolf Pro Security Edition provides preconfigured enterprise-level PC protection for small and medium sized businesses.

[5] HP Wolf Security for Business requires Windows 10 or 11 Pro or higher, includes various HP security features and is available on HP Pro, Elite and Workstation products. See product details for included security features and OS requirement.

[1] 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.

# Specifications

Form factor	Tower
Operating system	Windows 11 Pro
Processor family	Intel® Xeon® W processor
Processor	Intel® Xeon® W3-2423 (up to 4.0 GHz with Intel® Turbo Boost Technology, 15 MB L3 cache, 6 cores, 12 threads) <sup>[6,7]</sup>
Chipset	Intel® W790
Memory	16 GB DDR5-4800 MHz RAM (1 x 16 GB)
Memory Slots	8 DIMM
Internal Storage	512 GB HP Z Turbo Drive PCle® NVMe™ TLC M.2 SSD
Internal drive bays	One 3.5"; Four PCIe® M.2 SSD; Three 3.5" HDD
External drive bays	Two NVMe™ M.2 SSD; Two 3.5" HDD; Two 9.5 mm ODD
Compatible displays	All HP Z Displays and HP DreamColor Displays are supported. For more information see http://www.hp.com/go/zdisplays
Audio	Realtek ALC3205-CG
Minimum dimensions (W $\times$ D $\times$ H)	16.89 x 44.45 x 38.61 cm
Minimum dimensions (W x D x H)	6.65 x 17.50 x 15.20 in
Weight	Starting at 10.5 kg (Exact weights depend upon configuration (System weight only))
Weight	Starting at 23.2 lb (Exact weights depend upon configuration (System weight only))
Keyboard	HP USB 320K Keyboard
Pointing device	HP Wired 320M Mouse
Ports	2 SuperSpeed USB Type-C <sup>®</sup> 20Gbps signaling rate (USB Power Delivery); 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 headset/microphone combo <sup>[29]</sup>
Expansion slots	1 PCle 5 x16; 2 PCle 4 x16; 2 PCle 4 x4 (Rear bulkhead access can be achieved through all slots but 2 PCle 4 x8 are internal access only for M.2.)
Ports	4 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo
Ports	1 RJ-45; 1 audio-in/out
Package dimensions (W x D x H)	31.4 x 57.2 x 56.3 cm
Package weight	Starting at 14.35 kg
Power	525 W internal power supply, up to 90% efficiency, active PFC; 1125 W internal power supply, up to 90% efficiency, active PFC; 775 W internal power supply, up to 90% efficiency, active PFC
Management features	HP Driver Packs; HP System Software Manager (download); HP BIOS Configuration Utility (download); HP Smart Support

Sustainable impact specifications	Low Halogen; 40% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; External power supply 90% efficiency; Plastic cushion inserts contain 80% recycled content; Oceanbound plastic in system fan; 10% post-industrial recycled metal; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable
Security management	Full volume encryption; HP Secure Erase; Kensington lock slot; Secure authentication; TPM 2.0 certified; HP BIOSphere; HP Sure Run; HP Sure Click; HP Sure Sense; HP Sure Admin; HP Platform Certificate; HP Sure Start; HP Sure Recover; Self-Encrypted Drives <sup>[20,21,22,23,24,25,26,27]</sup>
Software included	HP PC Hardware Diagnostics UEFI; HP Performance Advisor; HP Support Assistant; HP PC Hardware Diagnostics Windows; HP Image Assistant; HP Manageability Integration Kit; HP Anyware; HP Data Science Stack <sup>[17,18,19]</sup>
UPC number	197497173413

# Additional specifications

Additional information about HP in the countries	hp.com
Available software	HP Smart Support
Datasheet photo 1	AHID/0aeae95382f321cf9b9ee84c06ac5ea6d81152b3
Datasheet photo 3	AHID/7761f3725a5982ef06acbe9a7d9c6aa593fb177a
Datasheet photo 4	AHID/4834e51471c5504b7ef1465539da15fa976d7327
Datasheet photo 5	AHID/b1a955b4c730abbd5bb13dbccfdb83fb5272764a
ECC memory	non-ECC
Graphic card footnote number	[30]
Graphic card footnote number	[30]
I/O Port location	Front (Premium version)
I/O Port location	Front (Entry version)
I/O Port location	Rear
Keyboard connectivity	wired
Keyboard interface	USB
Legal tagline	HP recommends Windows 11 Pro for business
Memory and storage	16 GB memory; 512 GB SSD storage
Memory layout (slots & size)	1 x 16 GB
Memory module type	DIMM
Memory size	16
Memory size Memory size uom	16 GB
-	
Memory size uom	GB
Memory size uom Memory speed	GB 4800
Memory size uom  Memory speed  Memory speed uom	GB 4800 MHz
Memory size uom  Memory speed  Memory speed uom  Memory type	GB 4800 MHz DDR5
Memory size uom  Memory speed  Memory speed uom  Memory type  Number of memory slots	GB 4800 MHz DDR5
Memory size uom  Memory speed  Memory speed uom  Memory type  Number of memory slots  Package dimensions (W x D x H)	GB 4800 MHz DDR5 1 12.36 x 22.52 x 22.17 in
Memory size uom  Memory speed  Memory speed uom  Memory type  Number of memory slots  Package dimensions (W x D x H)  Package weight	GB  4800  MHz  DDR5  1  12.36 x 22.52 x 22.17 in  Starting at 31.61 lb
Memory size uom  Memory speed  Memory speed uom  Memory type  Number of memory slots  Package dimensions (W x D x H)  Package weight  Playbook TS icon OS	GB  4800  MHz  DDR5  1  12.36 x 22.52 x 22.17 in  Starting at 31.61 lb  http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png
Memory size uom  Memory speed  Memory speed uom  Memory type  Number of memory slots  Package dimensions (W x D x H)  Package weight  Playbook TS icon OS  Playbook TS icon battery life	GB  4800  MHz  DDR5  1  12.36 x 22.52 x 22.17 in  Starting at 31.61 lb  http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png  http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png
Memory size uom  Memory speed  Memory speed uom  Memory type  Number of memory slots  Package dimensions (W x D x H)  Package weight  Playbook TS icon OS  Playbook TS icon battery life  Playbook TS icon connectivity  Playbook TS icon dimensions	GB  4800  MHz  DDR5  1  12.36 x 22.52 x 22.17 in  Starting at 31.61 lb  http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png  http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png  http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png

Playbook TS icon processor	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png
Playbook TS icon storage	http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png
Playbook TS icon weight imperial	http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png
Playbook TS icon weight metric	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png
Processor Brand	Intel®
Processor cache	15 MB L3
Processor core	6
Processor family	Xeon® W
Processor frequency technology	Intel® Turbo Boost Technology
Processor maximum frequency	4.0
Processor maximum frequency uom	GHz
Processor model	2423
Processor threads	12
Product long name specifications	HP Z4 G5 Workstation PC, Windows 11 Pro, Intel® Xeon® W, 16GB RAM, 512GB SSD
Product short name specifications	HP Z4 G5 Workstation PC, Intel® Xeon® W, 16GB RAM, 512GB SSD
Security Software Licenses	HP Wolf Pro Security Edition (1 year)
Standard memory note	Transfer rates up to 4800 MT/s.
Storage brand 01	HP Z Turbo Drive
Storage capacity	512
Storage capacity uom 01	GB
Storage controller	Integrated SATA 6.0 Gb/s; Integrated RAID 0, 1 available for SATA drives
Storage form factor 01	M.2
Storage interface 01	PCIe <sup>®</sup>
Storage interface protocol 01	NVMe™
Storage memory technology 01	TLC
Storage type	SSD
Storage type 01	SSD
UNSPSC code	43211515

<sup>[6]</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>[7]</sup> Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost/ for more information.

[17] HP Performance Advisor Software - HP Performance Advisor is ready and waiting to help you get the most out of your HP Workstation from day one—and every day after. Learn more or download at: https://www8.hp.com/us/en/workstations/performance-advisor.html .

[18] HP Support Assistant requires Windows and Internet access.

[19] HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html .

[20] HP Sure Click requires Windows 11 Pro or Enterprise. See https://bit.ly/2PrLT6A\_SureClick for complete details.

[21] HP Sure Start Gen7 is available on select HP PCs and Workstations. See product specifications for availability.

[22] HP Sure Recover Gen4 is available on select HP PCs and requires an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.

[23] HP Sure Sense requires Windows 11 Pro or Enterprise and supports Microsoft Internet Explorer, Google Chrome™, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or Adobe Acrobat are installed.

[24] HP Sure Run Gen5 is available on select HP PCs and requires Windows 10 and higher.

[25] HP Sure Admin requires Windows 10 or higher, HP BIOS, HP Manageability Integration Kit from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.

[26] HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

[27] HP BIOSphere Gen6 features may vary depending on the platform and configurations.

[29] Front Entry version contains: 1 headset/microphone combo; 4 SuperSpeed USB Type-A 5Gbps signaling rate.

# **HP Care Pack Services**

# Personal Systems Commercial Care Pack Services

HP 4 year Active Care Next Business Day Response Onsite WorkstationHardware Support	U22K4E ★
HP 5 year Active Care Next Business Day Resp Onsite w/Defective MediaRetention WS HW Supp	U22K8E ★
HP 1y PW Onsite Care DMR WS HW Supp	U60Q0PE
HP 1y PW Onsite Care Workstation HW Supp	U60PZPE
HP 3 year Active Care Next Business Day Resp Onsite w/Defective MediaRetention WS HW Supp	U22K6E
HP 3 year Active Care Next Business Day Response Onsite WorkstationHardware Support	U22K3E
HP 3 year Onsite Care w/Defective Media Retention Workstation Hardware Support	U61DLE
HP 3y Active Care Next Business Day Onsite DMR WS Solution Supp	U54A5E
HP 3y Active Care Next Business Day Onsite WS Solution Supp	U54A2E
HP 3y onsite Care DMR Workstation Solution Supp	U60MVE
HP 3y onsite Care Workstation Sol Supp	U60MRE
HP 4 year Active Care Next Business Day Resp Onsite w/Defective MediaRetention WS HW Supp	U22K7E
HP 4 year Onsite Care Workstation Hardware Support	U61DTE
HP 4 year Onsite Care w/Defective Media Retention Workstation Hardware Support	U61DWE
HP 4y Active Care Next Business Day Onsite DMR WS Solution Supp	U54A6E
HP 4y Active Care Next Business Day Onsite WS Solution Supp	U54A3E
HP 4y onsite Care DMR Workstation Solution Supp	U60MWE
HP 4y onsite Care Workstation Sol Supp	U60MSE
HP 5 year Active Care Next Business Day Response Onsite WorkstationHardware Support	U22K5E
HP 5 year Onsite Care Workstation Hardware Support	U61E2E
HP 5 year Onsite Care w/Defective Media Retention Workstation Hardware Support	U61E4E
HP 5y Active Care Next Business Day Onsite DMR WS Solution Supp	U54A7E
HP 5y Active Care Next Business Day Onsite WS Solution Supp	U54A4E
HP 5y onsite Care DMR Workstation Solution Supp	U60MXE
HP 5y onsite Care Workstation Sol Supp	U60MTE

★: Recommended

# **Accessories**

**Memory** ★: Recommended

## **DDR5 Memory**

16GB DDR5 4800 ECC Memory	340K1AA
32GB DDR5 4800 ECC Memory	340K2AA
64GB DDR5 4800 ECC Memory	340K3AA

# **PC Drives and Storage**

## **PC SATA Hard Drives**

2TB 7200RPM SATA 3.5in Enterprise	2Z274AA
HP 4TB SATA 7200 Hard Drive	K4T76AA
HP 4TB SATA 7200 Hard Drive	K4T76AT

## **PC Solid State Drives**

Crd HP Dual TBT4 PCIe x4 LP	340L1AA
Intel VROC NVMe SSD Premium Ctlr Module	3FJ81AA
Intel VROC NVMe SSD Standard Ctlr Module	3FJ80AA
Z Turbo 4TB 2280 PCIe-4x4 SED OPAL2 TLC M.2 SSD Module	5S497AA
Z Turbo 4TB 2280 PCIe-4x4 SED OPAL2 TLC M.2 SSD Module	5S497AT
Z Turbo 4TB 2280 PCIe-4x4 TLC SSD Module	5S496AA
Z Turbo 4TB 2280 PCIe-4x4 TLC SSD Module	5S496AT

# **Blu-ray Drives**

HP 9.5mm Slim BDXL Blu-Ray Writer Drive	K3R65AA
The Sistem State Date Did Nay Writer Diffe	1.3.1.03.111

## **PC DVD-ROM Drives**

HP 9.5mm Slim DVD-ROM Optical Drive	K3R63AA

## **Removable Hard Drive Enclosure**

HP DX175 Removable HDD Frame/Carrier	1ZX71AA
HP DX175 Removable HDD Spare Carrier	1ZX72AA
HP Z Turbo Drive Dual Pro PCIe-4x4 NVMe Carrier	56Q86AA

## Personal Media Storage

# **Graphics Cards**

## **Graphics Cards**

AMD Radeon Pro W6600 8GB GDDR6 4DP Graphics	340K5AA
AMD Radeon Pro W6800 32GB GDDR6 6mDP Graphics	340K7AA
AMD Radeon RX 6400 4GB DP+HDMI Graphics	6Q3U4AA
HP Nvidia Quadro Sync II	1WT20AA
NVIDIA RTX 6000 Ada 48 GB 4DP Graphics	79C23AA
NVIDIA RTX A2000 12 GB 4mDP Graphics	5Z7D9AA
NVIDIA RTX A2000 12 GB 4mDP Graphics	5Z7D9AT
NVIDIA RTX A2000 6GB DP 4mDP Graphics	340L0AA
NVIDIA RTX A4000 16 GB 4DP Graphics	20X24AA
NVIDIA RTX A4000 16 GB 4DP Graphics	20X24AT
NVIDIA RTX A4500 20 GB 4DP Graphics	5S458AA
NVIDIA RTX A4500 20 GB 4DP Graphics	5S458AT
NVIDIA RTX A5000 24 GB 4DP Graphics	20X23AA
NVIDIA RTX A5000 24 GB 4DP Graphics	20X23AT
NVIDIA RTX A6000 48 GB 4DP Graphics	2S6U3AA
NVIDIA RTX A6000 48 GB 4DP Graphics	2S6U3AT
NVIDIA T1000 8 GB 4mDP Graphics	5Z7D8AA
NVIDIA T1000 8 GB 4mDP Graphics	5Z7D8AT
NVIDIA T400 4 GB 3mDP Graphics	5Z7EOAA
NVIDIA T400 4 GB 3mDP Graphics	5Z7EOAT
Graphics Connectors/Adapters	
NVIDIA NVLink 3-Slot Bridge	340L3AA

# **PC Controller/Controller Options**

## **PC Processor Cards**

Allied Telesis AT-2911T/2-901 Dual Port 1GbE NIC	6E3Y9AA
NVIDIA Mellanox ConnectX-6 LX Dual Port 25GbE SFP28 NIC	436M8AA

# **Keyboards/Mice and Input Devices**

## Keyboards

HP 125 Wired Keyboard	266C9AA
HP 125 Wired Keyboard	266C9UT
HP 455 Programmable Wireless Keyboard	4R177A6
HP 455 Programmable Wireless Keyboard	4R177AA
HP 975 Dual-Mode Wireless Keyboard	3Z726AA
HP 975 Dual-Mode Wireless Keyboard	3Z726UT
HP Business Slim Smartcard Keyboard	Z9H48AA
HP Wired Desktop 320K Keyboard	9SR37AA
HP Wired Desktop 320K Keyboard	9SR37UT

## Mice

HP 125 Wired Mouse	265A9AA
HP 125 Wired Mouse	265A9UT
HP 128 Laser Wired Mouse	265D9AA
HP 128 Laser Wired Mouse	265D9UT
HP 935 Creator Wireless Mouse	1DOK8AA
HP 935 Creator Wireless Mouse	1D0K8UT
HP Wired Desktop 320M Mouse	9VA80AA
HP Wired Desktop 320M Mouse	9VA80UT

## **Keyboard and Mouse Kits**

HP 655 Wireless Keyboard and Mouse Combo	4R009AA
HP 655 Wireless Keyboard and Mouse Combo (Black 10)	4R009A6
HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
HP Wired Desktop 320MK Mouse and Keyboard	9SR36UT

# Cables/Cable Kits/Cable Adapters

# PC Cable Options

HP 2.5-in to 3.5-in HDD Adapter Kit	J5T63AA
HP Z4 HDD Cable Kit	74Y88AA
HP Z4 HDD Cable Kit	79C24AA

## **Audio and Video Cables**

HP DisplayPort To VGA Adapter	AS615AA
HP DisplayPort To VGA Adapter	AS615AT
HP DisplayPort To VGA Adapter	F7W97AA

## **Cable Adapters**

HP Single miniDP-to-DP Adapter Cable	2MY05AA
HP miniDP-to-DP Adapter Cables (Bulk 12)	2KW87A6

# **Expansion Solution and Controller Cards**

## **Port Adapters**

HP 2.5GbE LAN Flex Port Z2 Mini	169K0AT
HP Flex 1GbE Fiber LC Single Port	20J15AA
HP Internal Serial+PS/2 Port	56Q78AA
HP Serial Port Flex IO v3	5B895AA
HP USB-C 3.2 Gen2 Alt Flex Port 2020	141K6AA

#### **Remote Interfaces**

HP Anyware Integrated Remote System Controller	7K6D9AA
HP Anyware Remote System Controller	7K6D7AA
HP Anyware Remote System Controller Main Board Adapter	7K6D8AA

## **Chassis and Chassis Accessories**

## **Brackets/Bezels/Panels**

HP 2.5in HDD/SSD 2-in-1 Optical Bay Bracket	K4T74AA
HP Optical Bay HDD Mounting Bracket	NQ099AA
HP Z4 Fan and Front Card Guide Kit	56Q79AA
HP Z4 G4 Dust Filter	3DY47AA

# **Batteries/Chargers/Adapters**

#### **Power Cords**

HP C13 1.83m AC Power Cord 6Z1T9AA	HP C13 1.83m AC Power Cord	6Z1T9AA
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# **Security and Protection**

#### **PC Locks**

HP Keyed Cable Lock 10 mm	T1A62AA
HP Keyed Cable Lock 10 mm	T1A62UT

# Rack Brackets/Bezels/ Panels/Rails/ Trays/Mounting

## **Rack Kits**

HP Z2 Mini/Z2 Tower/Z4/Z6 Depth Adjustable Fixed Rail Rack Kit 2A8Y5AA

## **Mounting Kits**

NVIDIA 3D Stereo Bracket KOA25AA

# **Network Adapters**

## **Wireless LAN**

WLAN I AX210 Wi-Fi6e nvP +BT 5.2 ExtAnt 340L7AA

# **HyperX Gaming Peripherals**

## **HyperX Gaming Headsets**

**HyperX Cloud Headsets SC** 

HyperX Cloud Core Gaming Headset (Black) 4P4F2AA

★: Recommended

**HyperX Cloud Flight Headsets SC** 

HyperX Cloud Flight - Wireless Gaming Headset (Black-Red) 4P5L4AA

**HyperX Cloud MIX Headsets SC** 

HyperX Cloud MIX - Gaming Headset (Black-Gunmetal) 4P5K9AA

**HyperX Cloud Stinger Headsets SC** 

HyperX Cloud Stinger Core - Gaming Headset (Black) 4P4F4AA

## **HyperX Microphones**

HyperX SoloCast Microphones SC

HyperX SoloCast - USB Microphone (Black) 4P5P8AA

# **Hybrid Work Solutions**

**Audio** ★: Recommended

#### **Wired Headset**

Poly EncorePro 310 Stereo USB-A Headset	767G1AA
Poly EncorePro 320 Monaural USB-C Headset	767F9AA
Poly EncorePro 320 Stereo USB-A Headset	767G0AA

#### Wireless Headset

Poly Savi 7320 Microsoft Teams Certified DECT Headset	77T39AA
Poly Voyager 4310 Microsoft Teams Certified USB-A Headset +BT700 dongle	77Y91AA
Poly Voyager 4310 Microsoft Teams Certified USB-C Headset +BT700 dongle	77Y95AA
Poly Voyager 4310 USB-A Headset +BT700 dongle	76U48AA
Poly Voyager 4310 USB-C Headset +BT700 dongle	77Y94AA
Poly Voyager 4310 USB-C Headset +BT700 dongle +Charging Stand	77Y96AA
Poly Voyager 4310-M Microsoft Teams Certified USB-C Headset +BT700 dongle +Charging Stand	77Y97AA
Poly Voyager 4320 Microsoft Teams Certified USB-A Headset +BT700 dongle	77Y98AA
Poly Voyager 4320 Microsoft Teams Certified USB-C Headset +BT700 dongle	77Z30AA
Poly Voyager 4320 USB-A Headset +BT700 dongle	76U49AA
Poly Voyager 4320 USB-C Headset +BT700 dongle	76U50AA
Poly Voyager 4320 USB-C Headset +BT700 dongle +Charging Stand	77Z31AA
Poly Voyager 4320-M Microsoft Teams Certified Headset +BT700 dongle +Charging Stand	77Z32AA

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