



# HP Pavilion Gaming Laptop - 16-a0030nr (2Q222UA)



## Overview

### Big screen, small laptop

A 16" display in a 15" footprint, the Pavilion Gaming 16 Laptop PC is here to play. With a powerful Intel processor and NVIDIA® graphics for dynamic gameplay and Audio by B&O for full immersion. Plus fast connectivity options, upgradeable storage and memory and the full range of I/O ports, you've got the ultimate on-the-go gaming experience at your fingertips.[1]



### Powered for every move

The power to master any game. With a powerful Intel processor and NVIDIA® graphics, this gaming laptop will tackle everything you throw at it. The enhanced thermals keep everything cool, so you can game harder, better, faster and longer.



### Designed with the gamer in mind

Stay connected from anywhere thanks to fast wireless connectivity. The large PCIe SSD makes stashing files a snap. Plus there is a full range of I/O ports, so you've also got plenty of room for accessories.



### Get lost in play

Make every level mesmerizing with a fast 16" micro-edge display in a 15" body. Along with enhanced audio by B&O, you can see, do, hear and play more without carrying more.

## Features



### Windows 10

Do great things confidently with the familiar feel of Windows - only better.<sup>[3]</sup>



### FHD IPS display

Enjoy crystal-clear images from any angle. With 178° wide-viewing angles and a vibrant 1920 x 1080 resolution, you'll always have a great view of your favorite content.<sup>[5]</sup>



### DDR4 RAM

Designed to run more efficiently and more reliably at faster speeds, DDR4 is the future of RAM. With its higher bandwidth, everything from multi-tasking to playing games gets a performance boost.



### 10th Generation Intel® Core™ processor

Experience power and responsive performance to boost your productivity. Enjoy immersive entertainment and game, stream and create content with accelerated performance.<sup>[4]</sup>



### Anti-glare panel

Enjoy the sun and your favorite content with this anti-glare panel. Non-reflective and low gloss means you'll get less glare while you're outside.



### PCIe SSD storage

Boot up in seconds with lightning fast speed with up to 512 GB PCIe SSD storage.

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[1] This device has been engineered for optimal performance. Upgrading PC may affect warranty coverage.

[3] 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 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.microsoft.com>.

[4] 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. Internet service required and not included. 4K content required to view full 4K images. Graphics output may be limited based on the maximum resolution of the display.

[5] Full high-definition (FHD) content is required to view FHD images.

## Specifications

<b>Operating system</b>	Windows 10 Home 64
<b>Product color</b>	Shadow black, green chrome logo
<b>Processor family</b>	10th Generation Intel® Core™ i7 processor
<b>Processor</b>	Intel® Core™ i7-10750H (2.6 GHz base frequency, up to 5.0 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores) <sup>[6,7]</sup>
<b>Chipset</b>	Intel® HM470
<b>Memory</b>	16 GB DDR4-2933 SDRAM (2 x 8 GB)
<b>Internal Storage</b>	512 GB PCIe® NVMe™ M.2 SSD
<b>Product design</b>	Paint finish
<b>Optical drive</b>	Optical drive not included
<b>Graphics</b>	Integrated
<b>Graphics (integrated)</b>	Intel® UHD Graphics
<b>Display</b>	40.9 cm (16.1") diagonal, FHD (1920 x 1080), IPS, micro-edge, anti-glare, 250 nits, 45% NTSC
<b>Display</b>	16.1" diagonal, FHD (1920 x 1080), IPS, micro-edge, anti-glare, 250 nits, 45% NTSC
<b>Display size (diagonal)</b>	40.9 cm (16.1")
<b>Display size (diagonal)</b>	16.1"
<b>Audio features</b>	Audio by B&O; Dual speakers; HP Audio Boost 1.0
<b>Minimum dimensions (W x D x H)</b>	37 x 26.25 x 2.35 cm <i>(Dimensions vary by configuration)</i>
<b>Minimum dimensions (W x D x H)</b>	14.57 x 10.33 x 0.93 in
<b>Weight</b>	Starting at 2.35 kg <i>(Weight varies by configuration)</i>
<b>Weight</b>	Starting at 5.18 lb
<b>Keyboard</b>	Full-size, acid green backlit, shadow black keyboard with numeric keypad
<b>Pointing device</b>	HP Imagepad with multi-touch gesture support; Precision Touchpad Support
<b>Input devices</b>	Accelerometer
<b>Webcam</b>	HP True Vision 720p HD camera with integrated dual array digital microphones
<b>Ports</b>	1 SuperSpeed USB Type-C® 5Gbps signaling rate (DisplayPort™ 1.4); 1 SuperSpeed USB Type-A 5Gbps signaling rate (HP Sleep and Charge); 1 SuperSpeed USB Type-A 5Gbps signaling rate; 1 HDMI 2.0; 1 RJ-45; 1 AC smart pin; 1 headphone/microphone combo <sup>[19]</sup>
<b>Expansion slots</b>	1 multi-format SD media card reader
<b>Package dimensions (W x D x H)</b>	6.9 x 55.2 x 34.5 cm

<b>Package weight</b>	3.07 kg
<b>Network interface</b>	Integrated 10/100/1000 GbE LAN
<b>Wireless</b>	Realtek RTL8822CE 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 combo
<b>Power supply type</b>	200 W Smart AC power adapter
<b>Battery type</b>	3-cell, 52.5 Wh Li-ion polymer
<b>Battery life</b>	Up to 6 hours and 45 minutes <sup>[3]</sup>
<b>Battery recharge time</b>	Supports battery fast charge: approximately 50% in 45 minutes <sup>[5]</sup>
<b>Battery weight</b>	7.4 oz
<b>Battery weight</b>	210 g
<b>Ecolabels</b>	ENERGY STAR® certified; EPEAT® Silver registered
<b>Pre-installed software</b>	Netflix
<b>Software included</b>	McAfee LiveSafe™
<b>Software - Productivity &amp; finance</b>	1 month trial for new Microsoft 365 customers <sup>[24]</sup>
<b>Cloud service</b>	Dropbox <sup>[1]</sup>
<b>UPC number</b>	194850518577

## Additional specifications

<b>Battery capacity</b>	52.5
<b>Battery capacity uom</b>	Wh
<b>Battery cells number</b>	3
<b>Battery life</b>	Long Life
<b>Battery life video playback</b>	Up to 11 hours
<b>Battery type</b>	Li-ion polymer
<b>Bluetooth version</b>	Bluetooth® 5
<b>Brightness</b>	250 nits
<b>Color</b>	Shadow black
<b>Color gamut</b>	45% NTSC
<b>Display</b>	40.9 cm (16.1") diagonal FHD display
<b>Display</b>	16.1" diagonal FHD display
<b>Display bezel</b>	micro-edge
<b>Display brightness</b>	250
<b>Display brightness uom</b>	nits
<b>Display panel technology</b>	IPS
<b>Display resolution (pixels)</b>	1920 x 1080
<b>Display resolution standard</b>	FHD
<b>Display size (diagonal) uom</b>	"
<b>Display size (diagonal, imperial)</b>	16.1
<b>Display size (diagonal, metric)</b>	40.9
<b>Display size (diagonal, metric) uom</b>	cm
<b>Display surface treatment</b>	anti-glare
<b>ECC memory</b>	No
<b>Fingerprint reader</b>	Fingerprint reader not available
<b>Graphic card footnote number</b>	[8]
<b>Graphics</b>	Discrete
<b>Graphics (discrete)</b>	NVIDIA® GeForce® GTX 1660 Ti with Max-Q design (6 GB GDDR6 dedicated)
<b>Graphics card brand</b>	NVIDIA®
<b>Graphics card family</b>	GeForce®
<b>Graphics card memory size</b>	6
<b>Graphics card memory size uom</b>	GB
<b>Graphics card memory type</b>	GDDR6

<b>MDA key selling point</b>	Windows 10 Home or other operating systems available
<b>Memory and storage</b>	16 GB memory; 512 GB SSD storage
<b>Memory layout (slots &amp; size)</b>	2 x 8 GB
<b>Memory module type</b>	DIMM
<b>Memory size</b>	16
<b>Memory size uom</b>	GB
<b>Memory speed</b>	2933
<b>Memory speed uom</b>	MHz
<b>Memory type</b>	DDR4
<b>Model Number</b>	GTX 1660 Ti with Max-Q design
<b>Number of User-accessible Memory Slots</b>	2
<b>Number of memory slots</b>	2
<b>Package depth, imperial (extended size)</b>	23.54
<b>Package depth, imperial (most common size)</b>	21.73
<b>Package depth, metric (extended size)</b>	59.8
<b>Package depth, metric (most common size)</b>	55.2
<b>Package dimensions (W x D x H)</b>	2.71 x 21.73 x 13.58 in
<b>Package height, imperial (extended size)</b>	13.58
<b>Package height, imperial (most common size)</b>	13.58
<b>Package height, metric (extended size)</b>	34.5
<b>Package height, metric (most common size)</b>	34.5
<b>Package weight</b>	6.79 lb
<b>Package width, imperial (extended size)</b>	2.71
<b>Package width, imperial (most common size)</b>	2.71
<b>Package width, metric (extended size)</b>	6.9
<b>Package width, metric (most common size)</b>	6.9
<b>Packaging unit of measure (imperial)</b>	in

<b>Packaging unit of measure (metric)</b>	cm
<b>Processor Brand</b>	Intel®
<b>Processor base frequency</b>	2.6
<b>Processor base frequency uom</b>	GHz
<b>Processor cache</b>	12 MB L3
<b>Processor core</b>	6
<b>Processor family</b>	Core™ i7
<b>Processor frequency technology</b>	Intel® Turbo Boost Technology
<b>Processor generation</b>	10th Generation
<b>Processor maximum frequency</b>	5.0
<b>Processor maximum frequency uom</b>	GHz
<b>Processor model</b>	10750H
<b>Processor threads</b>	12
<b>Product brand name</b>	HP
<b>Storage capacity 01</b>	512
<b>Storage capacity uom 01</b>	GB
<b>Storage form factor 01</b>	M.2
<b>Storage interface 01</b>	PCIe®
<b>Storage interface protocol 01</b>	NVMe™
<b>Storage type</b>	SSD
<b>Storage type 01</b>	SSD
<b>Touchscreen</b>	No
<b>Wireless Model</b>	RTL8822CE
<b>Wireless antenna</b>	2x2
<b>Wireless standard</b>	802.11a/b/g/n/ac
<b>Wireless supplier</b>	Realtek

[1] New Dropbox users are eligible to get 25 GB of Dropbox space free for 12 months from date of registration. For complete details and terms of use, including cancellation policies, visit the Dropbox website at <https://www.dropbox.com/help/space/hp-promotion>. Internet service required and not included.

[3] Windows 10 MobileMark 18 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See <https://bapco.com/products/mobilemark-2018/> for additional details.

[5] Recharges your battery up to 50% within 45 minutes when the system is off (using "shut down" command). Recommended for use with the HP adapter provided with the notebook, not recommended with a smaller capacity battery charger. After charging has reached 50% capacity, charging speed will return to normal speed.

Charging time may vary +/-10% due to System tolerance. Available on select HP products. See <http://store.hp.com> for a full list of product features.

[6] 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.

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

[19] HP Sleep and Charge requires USB Type-A/Type-C charging protocol standard cable or dongle with external device for full functionality.

[24] Must activate within 180 days of Windows activation.

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## Accessories

### Cases and Covers

★ : Recommended

#### Backpacks

HP Pavilion Gaming Backpack 500	6EU58AA ★
HP Pavilion Gaming Backpack 300	6EU56AA ★
HP 15.6 Duotone Backpack	4QF96AA
HP 15.6 Duotone Backpack	4QF97AA
HP 15.6 in Black Odyssey Backpack	L8J88AA
HP 15.6 in Green/Gray Odyssey Backpack	L8J89AA
HP 17.3 in OMEN Gaming Backpack	K5Q03AA
HP ENVY Urban 15 Backpack	3KJ72AA
HP ENVY Urban 15 Backpack	7XG56AA
HP Renew Backpack	1A211AA
HP Renew Backpack	1A212AA
HP Spectre Folio Backpack	8GF06AA
OMEN by HP Gaming Backpack	4YJ80AA

#### Cases

HP 15.6 Duotone Briefcase	4QF94AA
HP 15.6 Duotone Briefcase	4QF95AA
HP 17.3 Signature Slim Topload Case	T0E19AA
HP 17.3 Value Topload Case	T0E18AA
HP Prelude 17.3-inch Laptop Bag	34Y64AA
HP Renew Slim Briefcase	1A214AA
HP Renew Slim Briefcase	1A215AA
OMEN Transceptor 17 Duffel Bag	7MT82AA

#### Covers

HP Carry Sleeve 17	3XD37AA
HP Carry Sleeve 17	3XD38AA
HP Envy Urban 15.6 Sleeve	3KJ70AA
HP Envy Urban 15.6 Sleeve	7XG60AA

### Keyboards/Mice and Input Devices

## Keyboards

HP Pavilion Gaming Keyboard 800	5JS06AA ★	
HP Pavilion Gaming Keyboard 550	9LY71AA ★	
HP Dual Mode Keyboard 1000	18J71AA	
HP K1500 Keyboard	H3C52AA	obsolete
HP K2500 Wireless Keyboard	E5E78AA	
HP Keyboard 100	2UN30AA	
HP Pavilion Wired Keyboard 300	4CE96AA	
HP Pavilion Wireless Keyboard 600	4CE98AA	
HP Pavilion Wireless Keyboard 600	4CF02AA	
HP Wireless Elite v2 Keyboard	QB467AA	obsolete
OMEN Spacer Wireless TKL Keyboard	9BU31AA	
OMEN by HP Encoder Keyboard	6YW75AA	
OMEN by HP Encoder Keyboard	6YW76AA	
OMEN by HP Sequencer Keyboard	2VN99AA	

## Mice

HP Pavilion Gaming Mouse 300	4PH30AA ★	
HP Pavilion Gaming Mouse Pad 400	5JH72AA ★	
HP Pavilion Gaming Mouse 200	5JS07AA ★	
HP Pavilion Gaming Mouse Pad 300	4PZ84AA ★	
HP 150 Wired Mouse	240J6AA	
HP 150 Wireless Mouse	2S9L1AA	
HP Bluetooth Travel Mouse	6SP25AA	
HP Bluetooth® Mouse 250	6CR73AA	
HP Bluetooth® Mouse Z5000	2HW67AA	
HP Dual Mode Mouse	6CR71AA	
HP ENVY Rechargeable Mouse 500	2LX92AA	
HP Elite Presenter Mouse	3YF38AA	
HP Pavilion Gaming Mouse 300	4PH31AA	
HP Spectre Rechargeable Mouse 700	3NZ70AA	
HP Spectre Rechargeable Mouse 700	3NZ71AA	
HP Spectre Rechargeable Mouse 700	4YH34AA	
HP Wired Mouse 100	6VY96AA	
HP Wired Mouse 1000	4QM14AA	
HP Wireless Mouse 200	2HU82AA	

HP Wireless Mouse 200	2HU83AA	
HP Wireless Mouse 200	2HU84AA	
HP Wireless Mouse 200	2HU85AA	
HP Wireless Mouse 200	2VY31AA	
HP Wireless Mouse 200	X6W31AA	
HP Wireless Mouse 220	258A1AA	
HP Wireless Mouse 220	3FV66AA	
HP Wireless Mouse 220	7KX10AA	
HP Wireless Mouse 220	7KX11AA	
HP Wireless Mouse 220	7KX12AA	
HP Wireless Mouse 220 with Pouch	6JA61AA	
HP Wireless Mouse 220 with Pouch	6JA62AA	
HP Wireless Mouse 250	3FV67AA	
HP Wireless Mouse X200	6VY95AA	
HP Wireless Mouse Z3700	4VY82AA	
HP Wireless Mouse Z3700	7UH87AA	
HP Wireless Mouse Z3700	7UH88AA	
HP Wireless Mouse Z4000	H5N61AA	
HP Wireless Silent 280M Mouse	19U64AA	
HP X1000 Mouse	H2C21AA	
HP X1500 Mouse	H4K66AA	
HP X220 Backlit Gaming Mouse	8DX48AA	
HP X3000 G2 Wireless Mouse	28Y30AA	
HP X3000 G2 Wireless Mouse	2C3M3AA	
HP X3000 Wireless Mouse	H2C22AA	
HP X4500 Wireless (Black) Mouse	H2W16AA	
HP X500 Wired Mouse	E5C12AA	
HP X500 Wired Mouse	E5E76AA	
HP Z3200 Black Wireless Mouse	J0E44AA	obsolete
HP Z3200 White Wireless Mouse	E5J19AA	obsolete
HP Z3700 Black Wireless Mouse	26V63AA	
HP Z3700 Black Wireless Mouse	V0L79AA	
HP Z3700 Blue Wireless Mouse	V0L81AA	
HP Z3700 Camo Wireless Mouse	171D7AA	
HP Z3700 Ceramic White Wireless Mouse	171D8AA	
HP Z3700 Forest Teal Wireless Mouse	171D9AA	

HP Z3700 Gold Wireless Mouse	X7Q43AA
HP Z3700 Red Wireless Mouse	VOL82AA
HP Z3700 Silver Wireless Mouse	X7Q44AA
HP Z3700 White Wireless Mouse	VOL80AA
HP Z5000 Bluetooth Mouse	E5C13AA
HP Z5000 Dark Ash Silver Wireless Mouse	W2Q00AA
OMEN Vector Essential Mouse	8BC52AA
OMEN Vector Mouse	8BC53AA
OMEN Vector Wireless Mouse	2B349AA
OMEN by HP Hard Mouse Pad 200	2VP01AA
OMEN by HP Mouse 600	1KF75AA
OMEN by HP Mouse Pad 100	1MY14AA
OMEN by HP Mouse Pad 200	3ML37AA
OMEN by HP Mouse Pad 300	1MY15AA
OMEN by HP Outpost Mousepad	6CM14AA
OMEN by HP Photon Wireless Mouse	6CL96AA
OMEN by HP Reactor Mouse	2VP02AA

## Keyboard and Mouse Kits

HP 150 Wired Mouse and Keyboard	240J7AA	
HP 230 Wireless Mouse and Keyboard Combo	18H24AA	
HP C2500 Desktop	H3C53AA	obsolete
HP C2500 Desktop	J8F15AA	
HP C2600 Keyboard and Mouse Combo	J2X04AA	obsolete
HP C2710 Combo Keyboard	M7P30AA	
HP C6020 Wireless Desktop	P1F56AA	
HP Pavilion Keyboard and Mouse 200	9DF28AA	
HP Pavilion Wired Keyboard and Mouse 400	4CE97AA	
HP Pavilion Wireless Keyboard and Mouse 800	4CE99AA	
HP Pavilion Wireless Keyboard and Mouse 800	4CF00AA	
HP Wired Keyboard and Mouse 160	6HD76AA	
HP Wireless Classic Desktop	LV290AA	obsolete
HP Wireless Classic v2 Desktop	V4L73AA	obsolete
HP Wireless Elite v2 Desktop Keyboard (USB Wireless Nano Receiver with Mouse)	QB355AA	obsolete
HP Wireless Keyboard and Mouse 250	6JU16AA	

## Audio/Multimedia and Communication Devices

### Headsets

HP X1000 Wireless Gaming Headset	7HC43AA ★
HP Pavilion Gaming Headset 400	4BX31AA ★
HP Bluetooth Headset 400	2ZW81AA
HP Bluetooth Headset 500	2J875AA
HP Boom Mic Headset 150	2EM62AA
HP Earbuds Black Headset 150	X7B04AA
HP H2800 Black Headset	J8F10AA
HP In-Ear Headphone 100	1KF54AA
HP In-Ear Headset 150	2AP91AA
HP Pavilion Gaming Headset 600	4BX33AA
HP Stereo Headset H2800	2AP94AA
HP Stereo Headset H2800	2AP95AA
HP X1000 Wireless Gaming Headset	7HC42AA
OMEN Blast Headset	1A858AA
OMEN by HP Headset 800	1KF76AA
OMEN by HP Mindframe Prime Headset	6MF35AA
OMEN by HP Mindframe Prime Headset	6MF36AA
Omen X by HP Mindframe Headset	3XT27AA

### Speakers

HP Black Bluetooth Speaker 350	2D802AA
HP Black Bluetooth Speaker 360	2D799AA
HP Blue Bluetooth Speaker 350	2D803AA
HP Blue Bluetooth Speaker 360	2D800AA
HP Gaming Speakers X1000	8PB07AA
HP Silver Bluetooth Speaker 350	2D804AA
HP Silver Bluetooth Speaker 360	2D801AA

### Headphones

HP Wireless Earbuds G2	169H9AA
OMEN Dyad Earbuds	8JE67AA

# Networking Products

## Switches/Hubs/Routers/Converters/Repeaters

HP ENVY USB-C Hub	5LX63AA
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# Graphics Cards

## Graphics Connectors/Adapters

HP HDMI to VGA Cable Adapter	X1B84AA
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# Batteries/Chargers/Adapters

## Power Adapters

HP Pavilion High Power Adapter 150W	2DR33AA
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HP Pavilion USB-C™ to HDMI 2.0 Adapter	2PC54AA
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# PC Drives and Storage

## PC DVD+RW Drives

HP USB External DVDRW Drive	F6V97AA
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# Cables/Cable Kits/Cable Adapters

## Cable Adapters

HP USB Type-C to RJ45 Adapter	V8Y76AA
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HP USB-C to HDMI 2.0	1WC36AA
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HP USB-C to HDMI 2.0	1WC36UT
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HP USB-C to RJ45 Adapter	V7W66AA
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HP USB-C to RJ45 Adapter	V7W66UT
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HP USB-C to USB-A Hub	Z6A00AA
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HP USB-C to USB-A Hub	Z6A00UT
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HP USB-C to USB-A Hub	Z8W90AA
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HP USB-C to VGA Adapter	N9K76AA
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HP USB-C to VGA Adapter	N9K76UT
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HP USB-C to VGA Display Adapter	P7Z54AA
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# Docking and Port Replicators

## Docking Stations

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