

## HP Chromebook 11 G8 EE N4020 29.5 cm (11.6") HD Intel® Celeron® 4 GB LPDDR4-SDRAM 16 GB eMMC Wi-Fi 5 (802.11ac) ChromeOS Grey

Brand: HP Product family: Chromebook Product code: 3C219EA

**Product name:** 11 G8 EE



- ChromeOS™
- 29.5 cm (11.6") diagonal, HD (1366 x 768), anti-glare, 220 nits, 45% NTSC
- Intel® UHD Graphics 600
- 4 GB memory; 48 GB eMMC storage

Chromebook 11 G8 EE, ChromeOS™, 11.6", Intel® Celeron®, 4GB RAM, 16GB eMMC, HD

HP Chromebook 11 G8 EE N4020 29.5 cm (11.6") HD Intel® Celeron® 4 GB LPDDR4-SDRAM 16 GB eMMC Wi-Fi 5 (802.11ac) ChromeOS Grey:

## The Chromebook built for schools and designed for learning

Help students reach their potential with cloud-first $^{[1]}$  learning on the durable HP Chromebook 11 G8 EE that keeps pace with active student lifestyles while the fast-booting ChromeOS makes IT management easy.











Design		Network	
Product type * Product colour * Form factor * Intel® vPro™ Platform Eligibility Country of origin	Chromebook Grey Clamshell X China	WLAN controller model WLAN controller manufacturer Ethernet LAN Bluetooth Bluetooth version	Intel Dual Band Wireless-AC 9560 Intel  x  5.0
Display		MIMO	✓ Multi User MIMO
, -	29.5 cm (11.6")  1366 x 768 pixels  X  HD  SVA  16:9  220 cd/m²  29.5 cm  NTSC  45%	MIMO type  Ports & interfaces	Multi Oser MIMO
		USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity * Combo headphone/mic port	2 2 ✓
		Keyboard	
		Keyboard special features  Pointing device  Numeric keypad *	Защита от снятия клавиш и попадания жидкости Touchpad
Processor		Keyboard backlit Island-style keyboard	1
Processor manufacturer * Intel Processor model * N4020	N4020	Spill-resistant keyboard Full-size keyboard	1
Processor family * Processor frequency *	Intel® Celeron® 1.1 GHz	Software	
Processor boost frequency	2.8 GHz	Operating system installed *	ChromeOS
Processor cores 2 Processor threads 2 Processor cache 4 MB	2	Processor special features	
	<del>-</del>	Intel® Anti-Theft Technology (Intel® AT)	×
Processor cache type	L3	Intel® Smart Response Technology	×
Processor socket BGA 1090 Processor lithography 14 nm Processor operating modes 64-bit Processor codename Gemini Lake Refresh Thermal Design Power (TDP) 6 W		Intel® Identity Protection Technology (Intel® IPT)	✓
	- · · · · · ·	Intel® Hyper Threading Technology (Intel® HT Technology)	×
		Intel® Turbo Boost Technology	X
Tjunction	105 °C	Enhanced Intel SpeedStep Technology	✓

Intel® Quick Sync Video Technology	_			
Janes	Processor		Processor special features	
RCI Express softs version   2.0		6	` ,	<b>√</b>
Memory	•			4
Internal memory	, ,	1x4+1x2, 2x1+1x2+1x2, 4x1	Tables (EPT)	✓
Internal memory type	•	4 CD	Intel® Secure Key	✓
Memony clock speed         3733 MHz         (Intel SGK)         ✓           Memony form factor         SO-DIMM         Intel 64         ✓           Memony form factor         4 GB         Idle States         ✓           ECC         X         Thermal Monitoring Technologies         ✓           ECC         X         Thermal Monitoring Technologies         ✓           Storage         25 x 24 mm         Sport of Instruction sets         SSE4.2           Storage media **         16 GB         CPU configuration (max)         1           Flash memory         16 GB         UART         ✓           Optical drive type *         X         UART         ✓           Card reader integrated         ✓         Intel Virtualization Technology (VT-VIP)         ✓           Card reader integrated         ✓         Intel Virtualization Technology (VT-VIP)         ✓           Card reader integrated         ✓         Intel Virtualization Technology (VT-VIP)         ✓           Card reader integrated         ✓         Intel Virtualization Technology (VT-VIP)         ✓           Card reader integrated         ✓         Processor ARK ID         197310           On-board graphics card **         ✓         HP segment         Business	•			✓
Memory slots     1x SO-DIMM     Execute Disable Bit     /       Maximum Internal memory**     4 GB     Idle States     /       ECC     X     Thermal Monitoring Technologies     /       Storage     Processor package size     25 x 24 mm       Total storage capacity**     16 GB     Supported instruction sets     SSE4.2       Storage media *     eMMC     Embedded options available     X       Flash memory     16 GB     UART     /       Optical drive type *     X     Intel Virtualization Technology for Directed I/O (VT-d)     /       Card reader integrated     /     Intel Virtualization Technology (VT-v)       Compatible memory cards     MicroSD (TransFlash)     Intel Virtualization Technology (VT-v)       Storage graphics card model *     Not available     Processor ARK ID     197310       Discrete graphics card model *     Not available     Processor ARK ID     197310       Discrete graphics card model *     Not available     HP speaker type     HP Dual Speakers       Discrete graphics card model *     MH2     Battery technology     Lithium Polymer (LiPo)       On-board graphics card burst frequency     650 MHz     Battery technology     Lithium Polymer (LiPo)       Number of execution units     12     AC adapter power     45 W       Number of execution u				✓
Maximum internal memory*	•			✓
ECC         X         Thermal Monitoring Technologies         ✓           Storage         Processor package size         25 x 24 mm           Total storage capacity*         16 GB         CPU configuration (max)         1           Flash memory         16 GB         Embedded options available         X           Optical drive type*         X         Intel Virtualization Technology for Obrical drive type*         ✓           Card reader integrated         ✓         Intel Virtualization Technology (VT-X)         ✓           Compatible memory cards         MicroSD (TransFlash)         Intel Virtualization Technology (VT-X)         ✓           Fraphics         V         Processor ARK ID         197310           Discrete graphics card model*         Not available         197310           On-board graphics card model*         Not available         HP segment         HP Dual Speakers           On-board graphics card model*         Intel® UHD Graphics 600         HP segment         HP Dual Speakers           On-board graphics card burst frequency         650 MHz         Battery         Ithin Polymer (LiPo)           On-board graphics card burst frequency         8 GB         Battery capacity*         47 Vh           Number of execution units         12         Ac adapter power         45 W <t< td=""><td>-</td><td></td><td></td><td>✓</td></t<>	-			✓
Storage Total storage capacity* 16 GB CPU configuration (max) 16 GB CPU configuration (max) 16 GB CPU configuration (max) 16 GB UART Optical drive type* Intel Virtualization Technology for Directed (VPT-d) Intel Virtualization Technology for Directed (VPT-d) Intel Virtualization Technology (VT-VPT-d) Intel Virtualization Tec	•			<b>V</b>
Supported instruction sets SSE4.2  Storage media* 16 GB CPU configuration (max) 1  Flash memory 16 GB UART Corporation (max) 1  Compatible with type* X UART Corporation (max) 1  Compatible memory cards MicroSD (TransFlash) Intel Virtualization Technology for Directed (10 (VT-d)) 1  Compatible memory cards MicroSD (TransFlash) Intel Virtualization Technology (VT-d)  Graphics  On-board graphics card model* Not available Processor ARK ID 197310  Discrete graphics card model* Not available Processor ARK ID 197310  Discrete graphics card model* Intel® UHD Graphics 600 HP segment Business  On-board graphics card model* Not available HP segment Business  On-board graphics card model* Not available HP segment Business  On-board graphics card bust frequency Maximum on-board graphics card bust frequency  On-board graphics card bust frequency  On-board graphics card Direct Business  Saltery technology Lithium Polymer (LiPo)  Number of battery capacity* 47 Wh  Maximum on-board graphics card Direct 12.0  Security  Cable lock slot Volume V	ECC	×		25 24
Total storage capacity* 16 GB  MMC Flash memory 16 GB  UART Optical drive type* X  Compatible memory cards  MicroSD (TransFlash)  Mi	Storage		· -	
Storage media* eMMC	Total storage capacity *	16 GB	• •	
Flash memory Optical drive type * X	Storage media *	еММС	<del>-</del>	_
Optical drive type * Card reader integrated	Flash memory	16 GB	•	
Card reader integrated Compatible memory cards MicroSD (TransFlash) Intel Virtualization Technology (VT-d) Compatible memory cards Discrete graphics card model* Not available On-board graphics card owel	Optical drive type *	×		
Graphics Discrete graphics card model * Not available On-board graphics card * ✓ HP speaker type HP Dual Speakers On-board graphics card base frequency On-board graphics card burst frequency  Maximum on-board graphics card memory Number of execution units  12 On-board graphics card DirectX version On-board graphics card DirectX version On-board graphics card OpenGL version On-board graphics card ID  Value  Number of built-in speakers Built-in microphone  Camera Front camera Front camera Front camera HD type HD  Network  Wi-Fi standards  Wi-Fi standards  Wi-Fi standards  Wi-Fi standards  Mobile network connection *  Wi-Fi standards  Wi-Fi standards  Wi-Fi standards  Nota available Processor ARK ID Propad HP Segment HP Speaker type HP Segment H	J		Directed I/O (VT-d)	✓
Discrete graphics card model * Not available On-board graphics card * ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	·	(,		✓
On-board graphics card * X HP Speaker type HP Dual Speakers On-board graphics card would be the UHD Graphics 600 HP segment Business On-board graphics card base frequency  Maximum on-board graphics card a 8 GB Maximum on-board graphics card base between the property of the property	•		·	197310
Discrete graphics card * X			Brand-specific features	
On-board graphics card model * Intel® UHD Graphics 600 HP segment Business On-board graphics card base frequency On-board graphics card burst frequency On-board graphics card burst frequency On-board graphics card burst frequency Maximum on-board graphics card burst frequency Maximum on-board graphics card burst prediction in the polymer of battery cells  2 Battery capacity 4 7 Wh Maximum on-board graphics card DirectX On-board graphics card DirectX On-board graphics card DirectX Version On-board graphics card OpenGL ver			•	LID Devel Consider
On-board graphics card base frequency On-board graphics card burst frequency On-board graphics card burst frequency  Maximum on-board graphics card burst frequency  Mounber of execution units  12  Mon-board graphics card DirectX version  On-board graphics card DirectX version  On-board graphics card DirectX version  On-board graphics card ID  Maximum on-board graphics card DirectX version  On-board graphics card ID  Mon-board graphics card ID				
frequency 200 MHz Battery technology Lithium Polymer (LiPo) On-board graphics card burst frequency 8 650 MHz Number of battery cells 2 Maximum on-board graphics card memory Number of execution units 12 On-board graphics card DirectX version 212.0 On-board graphics card OpenGL version 0.00 On-board graphics card DirectX version 20.00 On-board graphics card DirectX version 20.00 On-board graphics card ID 0.00 00.	• .	Intel® Ond Graphics 600		Business
Maximum on-board graphics card memory  Maximum on-board graphics card memory  Number of execution units  12  On-board graphics card DirectX version  On-board graphics card OpenGL version  On-board graphics card ID  Ox3185  Sustainability  Audio  Number of built-in speakers  2  Sustainability certificates  Sustainability certificates  ENERGY STAR  Sustainable technologies and materials  ENERGY STAR  Width  295 mm  Width  295 mm  Pront camera  Front camera  Front camera  Front camera ignal format  720p  HD  Network  Network  Network  Network  Network  Wi-Fi 5 (802.11ac)  Mobile network connection *  Wi-Fi 5 (802.11ac)  Mobile network connection *  Wi-Fi 5 (802.11ac)  Network  Ac adapter power  Ac adapter po	frequency	200 MHz	Battery	
Number of execution units On-board graphics card DirectX version On-board graphics card OpenGL On-board graphics card OpenGL Version On-board graphics card OpenGL Version On-board graphics card ID Ox3185  Sustainability  Sustainability  Sustainability certificates ENERGY STAR Sustainable technologies and materials Sustainable technologies and materials Width Opeth Septh Depth Depth Depth Height Weight Wei	On-board graphics card burst frequency	650 MHz	· · · · · · · · · · · · · · · · · · ·	
Number of execution units On-board graphics card DirectX version On-board graphics card OpenGL version On-board graphics card OpenGL version On-board graphics card ID Ox3185 Sustainability On-board graphics card ID Ox3185 Sustainability On-board graphics card ID Ox3185 Sustainability Sustainability certificates Sustainable technologies and materials Sustainable technologies and materials Weight & dimensions Width Span Front camera Front camera Front camera ignal format Front camera HD type HD Network Top Wi-Fi standard* Wi-Fi 5 (802.11ac) Wi-Fi standards Wi-Fi standards Wolf in the sum of the sum o	Maximum on-board graphics card memory	8 GB		47 Wh
Security On-board graphics card OpenGL version On-board graphics card ID On-board graphics card ID On-board graphics card ID Ox3185  Audio Number of built-in speakers Built-in microphone  Camera Front camera Front camera signal format Front camera HD type HD  Network Top Wi-Fi standard* Wi-Fi 5 (802.11ac) Wi-Fi standards Wollen etwork connection *   ***  ***  ***  ***  ***  ***  ***	Number of execution units	12		
On-board graphics card OpenGL version  On-board graphics card ID  Ox3185  Sustainability  Sustainability certificates  Sustainable technologies and materials  Sustainable technologies and materials  Midth  Suppose the suppose		12.0		45 W
version On-board graphics card ID Ox3185  Sustainability  Sustainability certificates Sustainability certificates Sustainability certificates Sustainability certificates Sustainability certificates Sustainable technologies and materials Sustainable technologies and materials Sustainable technologies and materials  Weight & dimensions  Weight & dimensions  Width  295 mm  Poepth  P		4.4	•	
Audio       Sustainability certificates       ENERGY STAR         Number of built-in speakers       2       Sustainable technologies and materials       Low halogen; TCO 8.0 Certified         Built-in microphone       ✓       Weight & dimensions         Width       295 mm         Width       295.3 mm         Depth       205.3 mm         Height       18.8 mm         Weight *       1.32 kg         Low Hollows         Network       Logistics data         Wi-Fi standards       802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11ac)         Wi-Fi standards       802.11a, 802.11b, 802.11ac)         Mobile network connection *       X			Cable lock slot	<b>✓</b>
Number of built-in speakers Built-in microphone  Camera  Front camera Signal format Front camera HD type HD  Network  Top Wi-Fi standard*  Wi-Fi standards  Wi-Fi 5 (802.11ac)  Mobile network connection *  Sustainable technologies and materials  Sustainable technologies and materials  Low halogen; TCO 8.0 Certified Materials  Width 295 mm  Depth 205.3 mm Height Width 18.8 mm Weight *  Veight *  Low halogen; TCO 8.0 Certified Materials  Width 295 mm  Depth 409 Width 205.3 mm  Height Weight *  Veight *  Low halogen; TCO 8.0 Certified Materials  Width 295 mm  Depth 409 Width 205.3 mm  Height Weight *  Veight *  Veigh	On-board graphics card ID	0x3185	Sustainability	
Humiber of build-in speakers  Built-in microphone  Camera  Front camera Front camera signal format Front camera HD type  HD  Network  Top Wi-Fi standard *  Wi-Fi 5 (802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11ac)  Mobile network connection *  Weight & dimensions  Width 295 mm  Depth Height 18.8 mm Weight *  1.32 kg  Lowitalogen; 1CO 8.0 Certined  Noth alogen; 1CO 8.0 Certined  Noth alogen; 1CO 8.0 Certined  Low nalogen; 1CO 8.0 Certined  Noth alogen; 1CO 8.0 Cer	Audio		Sustainability certificates	ENERGY STAR
CameraWeight & dimensionsFront camera✓Width295 mmFront camera signal format720pDepth205.3 mmFront camera HD typeHDHeight18.8 mmWeight *1.32 kgNetworkTop Wi-Fi standard *Wi-Fi 5 (802.11ac)Logistics dataWi-Fi standards802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11ac)Harmonized System (HS) code84713000Mobile network connection *★			3	Low halogen; TCO 8.0 Certified
Front camera Front camera signal format Front camera signal format Front camera HD type HD  Network  Top Wi-Fi standard* Wi-Fi 5 (802.11ac) Wi-Fi standards  Wi-Fi 5 (802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11ac)  Mobile network connection*  Width Depth Height Weight* 1.32 kg  Neight  Neight Weight* Harmonized System (HS) code Wi-Fi 5 (802.11ac)  Harmonized System (HS) code Wi-Fi 5 (802.11ac)  Width Depth  18.8 mm Weight* Harmonized System (HS) code Wi-Fi 5 (802.11ac)  Wi-Fi 5 (802.11ac)	·	•	Weight & dimensions	
Front camera signal format Front camera HD type HD  Network  Top Wi-Fi standard* Wi-Fi 5 (802.11ac) Wi-Fi standards Wi-Fi standards  802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11ac) Mobile network connection*  Depth 205.3 mm  Height Weight* 1.32 kg  Logistics data  Harmonized System (HS) code 84713000			Width	295 mm
Front camera HD type  HD  Height Weight * 1.32 kg  Network  Top Wi-Fi standard * Wi-Fi 5 (802.11ac) Wi-Fi standards  Wi-Fi standards  802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11ac)  Mobile network connection *   Height Weight * 1.32 kg  Logistics data  Harmonized System (HS) code  84713000			Depth	205.3 mm
Network  Top Wi-Fi standard * Wi-Fi 5 (802.11ac) Wi-Fi standards  Wi-Fi standards  Wi-Fi 5 (802.11b, 802.11g, Wi-Fi 4 (802.11ac)  Woi-Fi standards  Weight * 1.32 kg  Logistics data  Harmonized System (HS) code 84713000	=	·	Height	18.8 mm
Top Wi-Fi standard * Wi-Fi 5 (802.11ac) Wi-Fi standards Wi-Fi 5 (802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac) Mobile network connection *   Logistics data  Harmonized System (HS) code 84713000			Weight *	1.32 kg
Harmonized System (HS) code   84713000			Logistics data	
Wi-Fi standards       802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11ac)         Mobile network connection *       ★	Top Wi-Fi standard *		Harmonized System (HS) code	84713000
	Wi-Fi standards	(802.11n), Wi-Fi 5 (802.11ac)		
Antenna type 2x2				
	Antenna type	2x2		









Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.