# HP

## HP Pavilion 500-311cn Intel® Celeron® G G1840 4 GB DDR3-SDRAM 500 GB HDD NVIDIA® GeForce® GT 705 Windows 8.1 Tower PC Black

**Brand :** HP　　　　　**Product family:** Pavilion　　　　　**Product code:** J1E29AA

**Product name :** 500-311cn

Intel Celeron G1840 (2.8GHz), 4GB DDR3, 500GB HDD, DVD SuperMulti, Intel HD Graphics, Gigabit Ethernet, WLAN 802.11b/g/n, Windows 8.1 64-bit
HP Pavilion 500-311cn. Processor frequency: 2,8 GHz, Processor family: Intel® Celeron® G, Processor model: G1840. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM, Memory clock speed: 1600 MHz. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD Super Multi. On-board graphics card model: Intel® HD Graphics, Discrete graphics card model: NVIDIA® GeForce® GT 705. Operating system installed: Windows 8.1, Operating system architecture: 64-bit. Power supply: 180 W. Product type: PC

## Processor

| | |
|---|---|
| Processor manufacturer * | Intel |
| Processor family * | Intel® Celeron® G |
| Processor model * | G1840 |
| Processor cores | 2 |
| Processor threads | 2 |
| Processor frequency * | 2,8 GHz |
| Processor socket | LGA 1150 (Socket H3) |
| Processor cache | 2 MB |
| Processor cache type | L2 |
| System bus rate | 5 GT/s |
| Bus type | DMI2 |
| FSB Parity | ✗ |
| Processor lithography | 22 nm |
| Processor operating modes | 32-bit, 64-bit |
| Processor series | Intel Celeron Processor G1000 Series for Desktop |
| Processor codename | Haswell |
| Thermal Design Power (TDP) | 54, 53 |
| Tcase | 72 °C |
| PCI Express slots version | 3.0 |
| Maximum number of PCI Express lanes | 16 |
| PCI Express configurations | 1x16, 2x8, 1x8+2x4 |
| Number of processors installed | 1 |
| Stepping | C0 |
| Maximum internal memory supported by processor | 32 GB |
| Memory types supported by processor | DDR3-SDRAM |
| Memory clock speeds supported by processor | 1333 MHz |

## Expansion slots

| | |
|---|---|
| PCI Express x1 (Gen 2.x) slots | 2 |
| PCI Express x16 (Gen 3.x) slots | 1 |

## Design

| | |
|---|---|
| Chassis type * | Tower |
| Placement supported | Vertical |
| Water cooling system | ✗ |
| Number of 3.5" bays | 1 |
| Number of 5.25" bays | 1 |
| Product colour * | Black |
| Country of origin | China |

## Performance

| | |
|---|---|
| Motherboard chipset | Intel® H87 |
| Audio output channels | 5.1 channels |
| Product type * | PC |

## Software

| | |
|---|---|
| Operating system architecture | 64-bit |
| Operating system installed * | Windows 8.1 |

## Processor special features

| | |
|---|---|
| Intel® Wireless Display (Intel® WiDi) | ✔ |
| Intel 64 | ✔ |
| Enhanced Intel SpeedStep Technology | ✔ |
| Embedded options available | ✗ |
| Intel® InTru™ 3D Technology | ✗ |
| Intel® Insider™ | ✗ |
| Intel® Clear Video HD Technology (Intel® CVT HD) | ✔ |

## Processor

| | |
|---|---|
| Memory bandwidth supported by processor (max) | 21,3 GB/s |
| ECC supported by processor | ✔ |

## Memory

| | |
|---|---|
| Internal memory * | 4 GB |
| Maximum internal memory * | 16 GB |
| Internal memory type | DDR3-SDRAM |
| Memory slots | 2x DIMM |
| Memory clock speed | 1600 MHz |
| Memory channels | Dual-channel |

## Storage

| | |
|---|---|
| Total storage capacity * | 500 GB |
| Storage media * | HDD |
| Optical drive type * | DVD Super Multi |
| Number of storage drives installed | 1 |
| Number of HDDs installed | 1 |
| HDD capacity | 500 GB |
| HDD interface | SATA |
| HDD speed | 7200 RPM |
| Card reader integrated | ✔ |
| Compatible memory cards | Memory Stick (MS), MS PRO, SD, SDHC, SDXC |

## Graphics

| | |
|---|---|
| On-board graphics card * | ✔ |
| Discrete graphics card model * | NVIDIA® GeForce® GT 705 |
| Discrete graphics card memory | 1 GB |
| Discrete graphics memory type | GDDR3 |
| Number of discrete graphics cards | 1 |
| On-board graphics card family | Intel® HD Graphics |
| On-board graphics card model * | Intel® HD Graphics |
| On-board graphics card base frequency | 350 MHz |
| On-board graphics card dynamic frequency (max) | 1050 MHz |
| Maximum on-board graphics card memory | 1,024 GB |
| Number of displays supported (on-board graphics) | 3 |
| On-board graphics card DirectX version | 11.1 |
| On-board graphics card OpenGL version | 4.3 |
| Graphics card HDMI ports quantity | 1 |
| Graphics card DVI-I ports quantity | 1 |

## Network

| | |
|---|---|
| Ethernet LAN * | ✔ |
| Ethernet LAN data rates | 10,100,1000 Mbit/s |
| Cabling technology | 10/100/1000Base-T(X) |
| Wi-Fi * | ✔ |
| Top Wi-Fi standard | Wi-Fi 4 (802.11n) |
| Wi-Fi standards | 802.11b, 802.11g, Wi-Fi 4 (802.11n) |

## Ports & interfaces

| | |
|---|---|
| USB 2.0 ports quantity * | 4 |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 4 |
| VGA (D-Sub) ports quantity | 1 |
| DVI port | ✔ |
| Ethernet LAN (RJ-45) ports | 1 |
| Microphone in | ✔ |

## Processor special features

| | |
|---|---|
| Intel Clear Video Technology | ✘ |
| Intel VT-x with Extended Page Tables (EPT) | ✔ |
| Intel TSX-NI | ✘ |
| Idle States | ✔ |
| Thermal Monitoring Technologies | ✔ |
| Intel Stable Image Platform Program (SIPP) | ✘ |
| Intel® AES New Instructions (Intel® AES-NI) | ✘ |
| Intel® Secure Key | ✔ |
| Intel Trusted Execution Technology | ✘ |
| Execute Disable Bit | ✔ |
| Intel FDI Technology | ✘ |
| Intel Flex Memory Access | ✘ |
| Intel Fast Memory Access | ✘ |
| Intel Enhanced Halt State | ✔ |
| Intel Demand Based Switching | ✘ |
| Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID) | ✘ |
| Processor package size | 37.5 x 37.5 mm |
| Supported instruction sets | SSE4.1, SSE4.2 |
| Processor code | SR1VK |
| Scalability | 1S |
| CPU configuration (max) | 1 |
| Graphics & IMC lithography | 22 nm |
| Thermal solution specification | PCG 2013C |
| Intel Virtualization Technology for Directed I/O (VT-d) | ✘ |
| Intel Stable Image Platform Program (SIPP) version | 0,00 |
| Intel Secure Key Technology version | 1,00 |
| Intel Virtualization Technology (VT-x) | ✔ |
| Intel TSX-NI version | 0,00 |
| Intel Dual Display Capable Technology | ✘ |
| Intel Rapid Storage Technology | ✘ |
| Processor ARK ID | 80800 |
| Intel® Turbo Boost Technology | ✘ |
| Intel® Hyper Threading Technology (Intel® HT Technology) | ✘ |
| Intel® Quick Sync Video Technology | ✔ |
| Intel® My WiFi Technology (Intel® MWT) | ✘ |
| Intel® Anti-Theft Technology (Intel® AT) | ✘ |
| Conflict-Free processor | ✔ |

## Power

| | |
|---|---|
| Power supply * | 180 W |
| Power supply input voltage | 100 - 240 V |

## Weight & dimensions

| | |
|---|---|
| Width * | 175 mm |
| Depth * | 367 mm |
| Height * | 389 mm |
| Weight * | 7,15 kg |

## Packaging content

| | |
|---|---|
| Mouse included | ✔ |

| Ports & interfaces | |
|---|---|
| Headphone outputs | 1 |
| Line-out | ✔ |
| Line-in | ✔ |

| Packaging content | |
|---|---|
| Keyboard included | ✔ |

| Display | |
|---|---|
| Display included * | ✘ |

| Other features | |
|---|---|
| Optical drives quantity | 1 |
| Intel® Virtualization Technology (Intel® VT) | VT-x |