



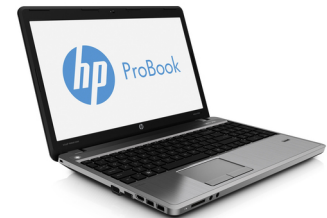
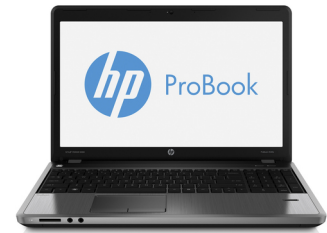
HP ProBook 4540s Intel® Core™ i5 i5-3210M 39.6 cm (15.6") 8 GB DDR3-SDRAM 750 GB HDD AMD Radeon HD 7650M Windows 7 Professional Aluminium, Black

Brand : HP

Product family: ProBook

Product code: B7C25PA

Product name : 4540s

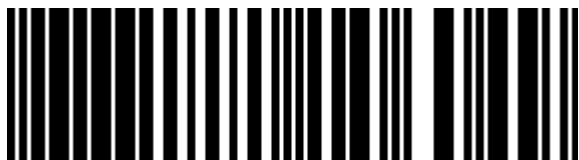


Intel Core i5-3210M Processor (3M Cache, up to 3.10 GHz), Intel HM76, 15.6" HD 1366 x 768, 8GB DDR3 1333MHz, 750GB SATA II HDD, AMD Radeon HD 7650M 2GB, DVD Super Multi DL, Gigabit Ethernet, WLAN 802.11b/g/n, Bluetooth, WebCam, Windows 7 Professional 64-bit
HP ProBook 4540s. Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-3210M, Processor frequency: 2.5 GHz. Display diagonal: 39.6 cm (15.6"), Display resolution: 1366 x 768 pixels. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 750 GB, Storage media: HDD, Optical drive type: DVD Super Multi DL. On-board graphics card model: Intel® HD Graphics 4000, Discrete graphics card model: AMD Radeon HD 7650M. Operating system installed: Windows 7 Professional. Product colour: Aluminium, Black

| Design | | Keyboard | |
|----------------------------|----------------------------------|--|------------------------|
| Product colour * | Aluminium, Black | Full-size keyboard | ✓ |
| Form factor * | Clamshell | Windows keys | ✓ |
| Country of origin | China | Software | |
| Display | | Operating system architecture | 64-bit |
| Display diagonal * | 39.6 cm (15.6") | Drivers included | ✓ |
| Display resolution * | 1366 x 768 pixels | Operating system installed * | Windows 7 Professional |
| Touchscreen * | ✗ | Processor special features | |
| Display number of colours | 16.78 million colours | Intel® Wireless Display (Intel® WiDi) | ✓ |
| LED backlight | ✓ | Intel® My WiFi Technology (Intel® MWT) | ✓ |
| Native aspect ratio | 16:9 | Intel® Anti-Theft Technology (Intel® AT) | ✓ |
| Display diagonal (metric) | 39.6 cm | Intel® Identity Protection Technology (Intel® IPT) | ✓ |
| Processor | | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor manufacturer * | Intel | Intel® Turbo Boost Technology | 2.0 |
| Processor family * | Intel® Core™ i5 | Enhanced Intel SpeedStep Technology | ✓ |
| Processor generation | 3rd gen Intel® Core™ i5 | Intel® Clear Video HD Technology (Intel® CVT HD) | ✓ |
| Processor model * | i5-3210M | Intel Clear Video Technology | ✗ |
| Processor cores | 2 | Intel® InTru™ 3D Technology | ✓ |
| Processor threads | 4 | Intel® Insider™ | ✓ |
| Processor boost frequency | 3.1 GHz | Intel® Quick Sync Video Technology | ✓ |
| Processor frequency * | 2.5 GHz | Intel Flex Memory Access | ✓ |
| System bus rate | 5 GT/s | Intel® Smart Cache | ✓ |
| Processor cache | 3 MB | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Processor cache type | Smart Cache | Intel Trusted Execution Technology | ✗ |
| Processor socket | BGA 1023 | Intel Enhanced Halt State | ✓ |
| Processor lithography | 22 nm | | |
| Processor operating modes | 64-bit | | |
| Processor series | Intel Core i5-3200 Mobile series | | |
| Processor codename | Ivy Bridge | | |
| Bus type | DMI | | |
| FSB Parity | ✗ | | |
| Stepping | L1 | | |
| Thermal Design Power (TDP) | 35 W | | |

| Processor | | Processor special features | |
|--|--|---|-----------------------|
| Tjunction | 105 °C | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Maximum number of PCI Express lanes | 16 | Intel Demand Based Switching | ✗ |
| PCI Express slots version | 3.0 | Intel® Secure Key | ✓ |
| PCI Express configurations | 1x16, 2x8, 1x8+2x4 | Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID) | ✗ |
| Number of processors supported | 1 | Intel 64 | ✓ |
| CPU multiplier (bus/core ratio) | 25 | Execute Disable Bit | ✓ |
| ECC supported by processor | ✗ | Idle States | ✓ |
| Memory | | Thermal Monitoring Technologies | ✓ |
| Internal memory * | 8 GB | Processor package size | 31.0 x 24.0 (BGA1023) |
| Internal memory type | DDR3-SDRAM | Supported instruction sets | AVX |
| Memory clock speed | 1333 MHz | Processor code | SR0N0 |
| Memory layout (slots x size) | 2 x 4 GB | CPU configuration (max) | 1 |
| Memory slots | 2x SO-DIMM | Embedded options available | ✗ |
| Maximum internal memory * | 8 GB | Graphics & IMC lithography | 22 nm |
| Storage | | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Total storage capacity * | 750 GB | Intel Identity Protection Technology version | 1.00 |
| Storage media * | HDD | Intel Secure Key Technology version | 1.00 |
| Number of HDDs installed | 1 | Intel Virtualization Technology (VT-x) | ✓ |
| HDD capacity | 750 GB | Intel Dual Display Capable Technology | ✓ |
| HDD interface | SATA II | Intel FDI Technology | ✓ |
| HDD speed | 7200 RPM | Intel Rapid Storage Technology | ✗ |
| HDD size | 2.5" | Intel Fast Memory Access | ✓ |
| Optical drive type * | DVD Super Multi DL | Processor ARK ID | 65708 |
| Card reader integrated | ✓ | Conflict-Free processor | ✓ |
| Compatible memory cards | MMC, SD | Integrated 4G WiMAX | ✓ |
| Graphics | | Battery | |
| Discrete graphics card model * | AMD Radeon HD 7650M | Battery technology | Lithium-Ion (Li-Ion) |
| Discrete graphics card memory | 2 GB | Number of battery cells | 6 |
| Discrete graphics memory type | GDDR3 | Battery capacity * | 47 Wh |
| On-board graphics card * | ✓ | Battery life (max) | 7 h |
| Discrete graphics card * | ✓ | Power | |
| On-board graphics card family | Intel® HD Graphics | AC adapter power | 90 W |
| On-board graphics card model * | Intel® HD Graphics 4000 | AC adapter frequency | 50 - 60 Hz |
| On-board graphics card base frequency | 650 MHz | AC adapter input voltage | 100 - 240 V |
| On-board graphics card dynamic frequency (max) | 1100 MHz | AC adapter output voltage | 19 V |
| On-board graphics card ID | 0x166 | Power auto-sensing | ✓ |
| Number of discrete graphics cards | 1 | DC-in jack | ✓ |
| Audio | | Security | |
| Audio system | SRS Premium PRO | Cable lock slot | ✓ |
| Built-in speaker(s) | ✓ | Operational conditions | |
| Number of built-in speakers | 2 | Operating temperature (T-T) | 5 - 35 °C |
| Built-in microphone | ✓ | Operating relative humidity (H-H) | 10 - 85% |
| Network | | Certificates | |
| Wi-Fi | ✓ | Compliance certificates | RoHS |
| Networking features | Gigabit Ethernet, WLAN | Sustainability | |
| Wi-Fi standards | 802.11b, 802.11g, Wi-Fi 4 (802.11n) | Sustainability certificates | ENERGY STAR |
| Ethernet LAN | ✓ | Weight & dimensions | |
| Ethernet LAN data rates | 10,100,1000 Mbit/s | Width | 375 mm |
| Bluetooth | ✓ | Depth | 256 mm |
| Cabling technology | 10/100/1000Base-T(X) | Height | 28 mm |
| Networking standards | IEEE 802.11b, IEEE 802.11g, IEEE 802.11n | | |
| Ports & interfaces | | | |
| USB 2.0 ports quantity * | 2 | | |

| Ports & interfaces | | Weight & dimensions | |
|---|--------------------|----------------------------------|-------------------|
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2 | Weight * | 2.33 kg |
| Ethernet LAN (RJ-45) ports | 1 | Packaging content | |
| HDMI ports quantity * | 1 | AC adapter included * | ✓ |
| DVI port | ✗ | Cables included | AC |
| VGA (D-Sub) ports quantity | 1 | Manual | ✓ |
| Headphone outputs | 1 | Warranty card | ✓ |
| S/PDIF out port | ✗ | Other features | |
| Microphone in | ✓ | Infrared data port | ✗ |
| ExpressCard slot | ✗ | Graphics card family | AMD, Intel |
| CardBus PCMCIA slot type | ✗ | Type | PC |
| SmartCard slot | ✗ | Maximum internal memory (64-bit) | 8 GB |
| Headphone connectivity | 3.5 mm | Dimensions (WxDxH) | 375 x 256 x 28 mm |
| Microphone connectivity | 3.5 mm | Power supply type | AC/DC |
| Performance | | Number of products included | 1 pc(s) |
| Motherboard chipset | Intel HM76 Express | Ethernet interface type | Gigabit Ethernet |
| Keyboard | | Number of speakers | 2 |
| Pointing device | Touchpad | Intel segment tagging | Enterprise |
| Numeric keypad * | ✓ | | |
| Spill-resistant keyboard | ✓ | | |



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Catalog Object Cloud



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