# PC Aufrüsten in der Praxis

**RAM- Erweiterung**

Die Erweiterung des Arbeitsspeichers gehört in der heutigen Zeit zu den Standardroutinen des Informatikers. Es gilt dabei folgende Punkte zu beachten:

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Heute werden folgende RAM-Module verwendet:

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Wichtig: Passende RAM Module anhand der Kompatibilitätsliste des Mainboard Herstellers auswählen.

**BIOS**

Wie gehen Sie bei einem BIOS Upgrade vor?

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**Festplatteneinbau (Laufwerkeinbau)**

Wie ersetzten Sie die Festplatte mit dem Betriebssystem in einem Rechner durch eine neue Festplatte mit dem kopierten Betriebssystem?

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**Alter Veteran**

Ein Kunde von Ihnen reklamiert, dass sein PC nicht mehr richtig zum Arbeiten verwendet werden kann. Er arbeitet mit Grafiken mit den Programmen Photoshop und Fireworks und hat meistens auch mehrere Programme gleichzeitig geöffnet. Es fehlt bei der Arbeit auch jeweils ein wenig die Übersicht auf dem Monitor mit so vielen Programmen. Zudem hat er das Gefühl, eine schnellere Netzwerkkarte würde seinem System etwas auf die Sprünge helfen beim Surfen im Internet.

Anbei sehen Sie seine Hardware:

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| **Mainboard**  Asus® P5GD1 Pro |  |
| **Prozessor**  Intel® Pentium® 4 Prozessor (3.2 GHz, 800MHz FSB) --> nicht erweiterbar! | |
| **Arbeitsspeicher** (4 Slots vorhanden), 2 Slot besetzt  2 x 512 MB DDR RAM 333 MHz |  |
| **Festplatte**  160 GB Serial ATA Festplatte (7200 UpM) | **Optisches Laufwerk**  24x CD-RW/DVD Kombi-Laufwerk |
| **Grafikkarte**  ATI Radeon 64MB Graphics Card (PCIe x 16) | **Soundkarte**  Integrierter 5.1 Soundchip |
| **Netzwerkkarte**  Marvell® Pro 1 GBit/s Netzwerkkarte onboard |  |
| **Monitor**  Dell 176FP 17" LCD TFT Flachbildschirm |  |

Was empfehlen Sie Ihrem Kunden?

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**Normaler Rechner**

Ein Kunde hat vor ca. 6 Jahren einen Rechner von Ihnen gekauft und möchte nun sein System etwas auf Vordermann bringen. Das System sollte neu mit Windows 10 betrieben werden. Machen Sie einen einfachen Upgrade Vorschlag und halten Sie auch die Kosten fest, welche entstehen werden.

Anbei sehen Sie seine Hardware:

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| **Mainboard**  Asus® P7H57D-V |  |
| **Prozessor**  Intel® Core ™ i5-650 Prozessor (3.2 GHz) | |
| **Arbeitsspeicher**  2 x 1 GB DDR3 RAM 1066 MHz (Kingston) |  |
| **Festplatte**  64 GB Samsung SSD (SATA 2)  250 GB HDD Deskstar T7K1000 (SATA 2) | **Optisches Laufwerk**  24x CD-RW/DVD Kombi-Laufwerk |
| **Grafikkarte**  On Board / On Chip | **Soundkarte**  Integrierter 5.1 Soundchip |
| **Netzwerkkarte**  Realtek® 8112L 1 GBit/s Netzwerkkarte onboard |  |
| **Monitor**  Dell 196FP 19" LCD TFT Flachbildschirm |  |

Was empfehlen Sie Ihrem Kunden für sinnvolle Upgrades (Begründung)?

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**Only High Speed**

Ein Kunde hat einen gebrauchten Rechner von Ihnen gekauft und möchte nach ein paar Wochen noch mehr aus dem System herausholen. Das System sollte folgende Eckdaten besitzen (max. Arbeitsspeicher, Grafikkartensystem mit 3-Weg CrossFireX™, Top CPU mit Wasserkühlung, SSD M.2 Speicher).

Machen Sie einen Nachrüstvorschlag und halten Sie die Kosten fest, welche entstehen.

Anbei sehen Sie seine Hardware:

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| **Mainboard**  AS Rock® Z170 Extreme6+ |  |
| **Prozessor**  Intel® Quad Core ™ i5-6600K/3500 Prozessor, normaler Kühler | |
| **Arbeitsspeicher**  2 x 8 GB DDR4 RAM 2133 MHz (Corsair) |  |
| **Festplatte**  120 GB Samsung 850 EVO SSD (SATA 3), 2,5‘‘  1 TB HDD Deskstar (SATA 3) | **Optisches Laufwerk**  LG DVDRW 24x CD-RW/DVD Kombi-Laufwerk |
| **Grafikkarte**  On Board / On Chip | **Soundkarte**  Integrierter 7.1 Soundchip on Board |
| **Netzwerkkarte**  1 GBit/s Netzwerkkarte onboard |  |
| **Monitor**  Dell 22" LCD TFT Flachbildschirm (4:3), 1280:1024 |  |

Was empfehlen Sie Ihrem Kunden für sinnvolle Upgrades (Begründung)?

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