

| <b>TOSHIBA TECRA A11-12V</b>                |   |
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| <b>Processor</b>                            | Type: Intel® Core™ i5-520M Processor  |
|   | clock speed : 2.40 / 2.93 Turbo GHz   |
|   | Front Side Bus : 1,066 MHz  |
|   | 3rd level cache : 3 MB  |
| <b>Operating system</b>                     | Genuine Windows® 7 Professional 32-bit (pre-installed, Toshiba-HDD recovery) + Downgrade to Genuine Windows® XP Professional (Toshiba-Recovery DVD)   |
| <b>System memory</b>                        | standard : 3,072 (2,048 + 1,024) MB   |
|   | maximum expandability : 8,192 MB  |
|   | technology : DDR3 RAM (1,066 MHz)   |
| <b>Hard disk</b>                            | capacity : 320 GB   |
|   | drive rotation : 7,200 rpm  |
| <b>DVD Super Multi drive (Double Layer)</b> | compatibility : CD-ROM, CD-R, CD-RW, DVD-ROM, DVD-R, DVD-R(DL), DVD-RW, DVD+R, DVD+R(DL), DVD+RW, DVD-RAM   |
|   | maximum speed : Read: 24x CD-ROM, 8x DVD-ROM/ Write: 24x CD-R, 4x CD-RW, 10x HS CD-RW, 24x US CD-RW, 8x DVD-R, 6x DVD-R (Double Layer), 6x DVD-RW, 8x DVD+R, 6x DVD+R (Double Layer), 8x DVD+RW, 5x DVD-RAM |
|   | type : DVD Super Multi (Double Layer) drive   |
| <b>Display</b>                              | size : 15.6 "   |
|   | type : Toshiba HD TFT High Brightness display with LED backlight and 16 : 9 aspect ratio  |
|   | internal resolution : 1,366 x 768   |
| <b>Graphics adapter</b>                     | manufacturer : Intel®   |
|   | type : Intel® QM57 Express Chipset with Intel® Graphics Media Accelerator HD  |
|   | memory amount : total available graphics memory can be up to 1,228 MB with a 32-bit operating system and 3 GB system memory or 1,696 MB with a 64-bit operating system and 4 GB system memory               |
|   | memory type : shared  |
| <b>Internal video modes</b>                 | The following internal video modes are supported:<br>resolution : 1,366 x 768   |
| <b>Max. external video modes</b>            | max. resolution : 2,048 x 1,536   |
|   | max. refresh rate : 85 Hz   |
|   | non-interlaced resolution with max. refresh rate : 1,600 x 1,200  |
| <b>Interfaces</b>                           | 1 x DC-in   |
|   | 1 x external monitor  |
|   | 1 x expansion bus connector   |
|   | 1 x RJ-11   |
|   | 1 x RJ-45   |
|   | 1 x serial  |
|   | 1 x external microphone   |



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|                               | 1 x headphone (stereo)  |
|                               | 1 x Multi-Card Reader (supports SD™ Cards up to 16 GB, Memory Stick® up to 256 MB, Memory Stick Pro™ up to 4 GB, MultiMedia Card™ up to 2 GB and xD-Picture Card™ up to 2 GB) |
|                               | 1 x Mini DisplayPort  |
|                               | 3 (Left 1, Right 2) x USB 2.0   |
|                               | 1 x integrated HD Web Camera (1,280 x 800) with AutoMacro support and built-in microphone   |
|                               | 1 (Left) x eSATA/USB 2.0 supporting USB Sleep-and-Charge  |
| <b>Expansion</b>              | 2 x memory slots  |
|                               | 1 x ExpressCard slot  |
|                               | 1 x connection to Toshiba Express Port Replicator 2 (optional)  |
| <b>Wireless communication</b> | Wireless Technology : Bluetooth®  |
|                               | Compliance : Wi-Fi™   |
|                               | Network Support : 802.11 b/g/n  |
|                               | Wireless Technology : Wireless LAN  |
| <b>Wired communication</b>    | topology : international V.92 modem   |
|                               | speed : 56 Kbps data and 14.4 Kbps fax  |
|                               | topology : Gigabit Ethernet LAN   |
|                               | speed : 10BASE-T/100BASE-TX/1000BASE-T  |
| <b>Sound system</b>           | supported audio format : 24-bit stereo  |
|                               | speakers : built-in stereo speakers   |
| <b>Keyboard</b>               | Keys : 105  |
|                               | Windows® keys : Yes   |
|                               | special features : full-size keyboard with 10-digit numeric keypad  |
| <b>Pointing device</b>        | type : Touch Pad  |
| <b>Battery</b>                | technology : lithium-ion  |
|                               | maximum life : up to 4h40min (Mobile Mark™ 2007)  |
| <b>AC adapter</b>             | input voltage : autosensing AC adapter (100/240 V) for worldwide usage  |
|                               | output voltage : 15 V   |
|                               | output current : 5 A  |
| <b>Physical dimensions</b>    | W x L x H : 374.0 x 250.5 x 33.4 (front) / 37.6 (rear) mm   |
|                               | weight : starting at 2.54 kg  |
| <b>Warranty</b>               | 1 -Year International warranty.   |
| <b>Bundled hardware</b>       | AC adapter  |
| <b>Bundled software</b>       | Toshiba Bluetooth™ Stack  |
|                               | Toshiba Bluetooth™ Monitor  |
|                               | Toshiba Disc Creator  |



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|   | Toshiba User's Manual  |
|   | Toshiba Assist   |
|   | Chicony Camera Assistant Software  |
|   | Toshiba DVD Player   |
|   | free 60-day trial of Microsoft® Office Professional 2007   |
|   | Toshiba Face Recognition   |
|   | Toshiba Value Added Package (Toshiba Power Saver, Toshiba Zooming Utility, Toshiba PC Diagnostic Tool, Toshiba Flash Cards, Toshiba Components Common Driver, Toshiba Accessibility, Toshiba Button Support) |
|   | Google Toolbar   |
|   | McAfee® Internet Security (includes free Internet updates for 30 days)   |
|   | Toshiba Photo Service  |
|   | Toshiba Recovery Media Creator   |
|   | Connectivity Doctor  |
|   | ConfigFree™  |
|   | Toshiba utilities and drivers  |
|   | <b>Toshiba EasyGuard</b>   |
| Protection:<br><br>Optical Drive Auto Lock<br>Shock Protection Design<br>HDD Protection and 3D accelerometer<br>Spill-resistant Keyboard<br>PC Diagnostics<br>Kensington Lock<br>Data Backup<br>Easy Fix Components<br>Durable Design |  |
| Connectivity:<br><br>Diversity Antenna<br>Voice over IP ready<br>Video over IP ready<br>Toshiba ConfigFree™<br>Bluetooth® v2.0/2.1 with EDR<br>Wireless LAN (802.11a/b/g/N)<br>Wireless Communication Switch<br>Mini DisplayPort      |  |



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|                          | <p>Manageability:</p> <ul style="list-style-type: none"><li>Intel® Anti-Theft</li><li>10-Digit Numeric Keypad</li><li>Toshiba LifeSpace</li><li>Eco Utility</li><li>PC Health Monitor</li><li>Toshiba TEMPRO Performance Tuning Service</li><li>Toshiba Power Saver Utility</li><li>Virtualization Technology</li><li>Dynadock 'USB Port Replicator' (optional)</li><li>Port Replicator (optional)</li></ul> |
| <b>Security features</b> | keyboard lock  |
|                          | wireless LAN switch  |
|                          | user password  |
|                          | slot for Kensington Cable Lock   |
|                          | supervisor password  |
|                          | HDD password on request  |
| <b>Special features</b>  | ENERGY STAR qualified computer   |
|                          | SM BIOS compliant  |
|                          | Enhanced Intel® SpeedStep® Technology  |
|                          | integrated microphone for Voice over IP  |
|                          | HD Audio supporting  |
|                          | common docking and options with other Toshiba notebooks  |