

DATA SHEET

AMILO Notebook Sa 3650

Express your passion

Issue: October 2009

Always on the move? Like to travel light? Not much room to spare? We have developed a particular mobile AMILO Notebook Sa 3650 powered by AMD next-generation mobile processors - just for you. It combines extremely small dimension with powerful performance - and ingenious design - for productive work and the best in entertainment, wherever you are. The dedicated AMILIO GraphicBooster powered by ATI XGP™ technology increases video performance by up to 470 percent!

Processor technology

- AMD next-generation mobile dual-core processor technology

Innovation

- Supporting AMILO GraphicBooster for superior discrete graphics performance for 3D gaming experience. Run up to 3 displays simultaneously, 2 of them via the AMILO GraphicBooster powered by ATI Mobility Radeon™ HD 3870 premium graphics (512 MB dedicated video memory)

Reliability

- Spill-proof keyboard to protect your notebook against accidentally spilt liquids
- Engineered in Germany

Mobility

- 33.8 cm (13.3-inch) form-factor that fits in almost every bag
- Integrated draft-n Wireless LAN to go online when and wherever you want
- Energy-saving ATI Radeon™ HD 3200 onboard graphics for an extended battery life of up to 4.5 hours

Entertainment and Multimedia

- The integrated Logitech® QuickCam® with low-light technology for great video-quality even in low-light conditions and a built-in digital array microphone are perfect for Internet telephony (VoIP) and video chats
- LCD WXGA display with BrilliantView technology for vivid colors, amazing sharpness and impressive contrast
- Enjoy your favorite Hollywood blockbuster on an external display via DVI-I (with HDCP support)

More convenience thanks to

- The silent mode function that causes a noticeable reduction in fan noise
- The included protection sleeve to protect your notebook from bumps and scratches
- The built-in DVD drive to store and secure data comfortably on the move





Components

Processor

AMD Turion™ X2 Ultra Dual-Core ZM86 (2.40 GHz, 2 MB, 3600 MHz)

AMD Turion™ X2 Ultra Dual-Core ZM84 (2.30 GHz, 2 MB, 3600 MHz)

AMD Turion™ X2 Dual-Core RM74 (2.20 GHz, 1 MB, 3600 MHz)

Processor notes Processor depends on exact configuration. Please check at your local retailer.

Memory modules

4 GB (2 module(s) with 2 GB, DDR2), 800 MHz

3 GB (2 module(s) with 1 GB and 2 GB, DDR2), 800 MHz

2 GB (2 module(s) with 1 GB, DDR2), 800 MHz

2 GB (1 module(s) with 2 GB, DDR2), 800 MHz

1 GB (1 module(s) with 1 GB, DDR2), 800 MHz

Supported capacity RAM (min.) 1 GB

Supported capacity RAM (max.) 4 GB

Memory slots total 2

Memory slot type SO DIMM (DDR2, 800 MHz)

Memory notes Memory size depends on exact configuration. Please check at your local retailer.
Disclaimer: Up to 1 GB may not be available with 32-bit operating systems due to system resource requirements if system is preinstalled with 4 GB RAM

Hard disk drives (internal)

500 GB, 5400 rpm, SATA, 2.5-inch, HDD cache: 8 MB, S.M.A.R.T.

320 GB, 5400 rpm, SATA, 2.5-inch, HDD cache: 8 MB, S.M.A.R.T.

250 GB, 5400 rpm, SATA, 2.5-inch, HDD cache: 8 MB, S.M.A.R.T.

Hard disk notes Hard disk capacity depends on exact configuration. Please check at your local retailer.
One Gigabyte equals one billion bytes, when referring to hard disk drive capacity.

Optical drive options

Optical drive technology SuperMulti-format DVD burner with double layer (DL) support (slot-in)

Interface type SATA

Optical drive read speed CD-ROM 24x, DVD-ROM 8x

Optical drive write speed CD-R 24x, CD-RW 16x, DVD+R 8x, DVD-R 8x, DVD+RW 8x, DVD-RW 6x, DVD+R DL (8.5 GB) 6x, DVD-R DL (8.5 GB) 6x, DVD-RAM 5x

Loading mechanism Slim slot in (with emergency eject function)

Display

Display Technology BrilliantView LCD

Diagonal Size 33.8 cm (13.3-inch)

Aspect ratio 16:10

Display Resolution type WXGA

Resolution (native) 1280 x 800 pixel

Response time typical 25 ms

Brightness - typical 200 NIT

Contrast - typical 400 : 1

Battery

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| Battery type | Li-Ion battery 6-cell | Li-Ion battery 9-cell |
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| Battery voltage | 11.1 V | 14.8 V |
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| Battery capacity | 2600 mAh | 7800 mAh |
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| Battery runtime (idle mode) | Up to 3:10 hours | Up to 4:25 hours |
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| Battery runtime (DVD playback) | Up to 2:00 hours | Up to 3:10 hours |
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| Battery charging time (idle mode) | Up to 1:25 hours | Up to 1:40 hours |
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| Battery charging time (maximum active mode) | Up to 1:40 hours | Up to 2:35 hours |
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| Battery charging time (off mode) | Up to 1:25 hours | Up to 1:40 hours |
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| Battery notes | <p>Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. Battery recharge time varies depending on usage. The recharge capacity may decrease after some months so that the battery lifetime as well as operating time can not be assured for the whole lifetime of the notebook.</p> <p>Battery runtime (idle mode) tested with Battery Mark 4.0.1 ("power saver mode").</p> <p>Battery runtime (DVD playback) tested with Vista DVD playback.</p> <p>System in Vista idle mode / power saving mode.</p> <p>Battery charging time (maximum active mode) tested with 3DMark 2003.</p> <p>Battery charging time (normal use) tested with Vista DVD playback.</p> |
| AMILO Notebook Sa 3650 | |
| Operating system | |
| Operating system compatible | <p>Genuine Microsoft® Windows® 7 Home Premium 32-bit</p> <p>Genuine Microsoft® Windows Vista® Business 32-bit</p> <p>Genuine Microsoft® Windows Vista® Home Premium 32-bit</p> |
| Recovery application | Backup and restore the original status of the hard disk and create system restore disks or individual recovery media on CD or DVD are included |
| Drivers | Updates downloadable at http://ts.fujitsu.com/support |
| Product design | |
| Color | Reveal white (pearly finish) |
| General system information | |
| System architecture | AMD next-generation mobile dual-core processor technology |
| Chipset | AMD 780G, AMD SB700 |
| Graphics | |
| Dedicated video memory | 64 MB dedicated local frame buffer video memory for extended battery life |
| Onboard graphics processor | ATI Radeon® HD 3200 |
| Shared video memory | up to 1582 MB |
| 3D Benchmark points | Up to 1500 (3D Benchmark 2006, depending on configuration) |
| Max. resolution external display | 480p, 720 p and 1080i |
| Graphics features | Dual display support, to use LCD and external display via DVI-I simultaneously DirectX® 10 support |
| Graphics notes | <p>Shared video memory size may vary depending on configuration and the version of the operating system. The video memory size that is displayed in the system information software, as well as the actually used video memory size depends on Microsoft® Windows Vista® memory management. The following values might serve as orientation.</p> <ul style="list-style-type: none"> - 1024 MB system memory enables up to 447 MB static and shared memory - 2048 MB system memory enables up to 959 MB static and shared memory - 3072 MB system memory enables up to 1471 MB static and shared memory - 4096 MB system memory enables up to 1582 MB static and shared memory |
| Interfaces | |
| DC-in | 1 |
| Audio: line-in | 1 |
| Audio: line-out / headphones / SPDIF | 1 |
| Audio: microphone in | 1 |
| Internal microphones | 2 |
| USB 2.0 total | 2 |
| eSATA & USB combo | 1 |
| DVI | 1 (incl. HDCP support) |
| FireWire (IEEE1394) | 1 |
| PCI Express 2.0 | 1 (8x, external) |
| Ethernet (RJ-45) | 1 |
| Memory card slots | 1x 15-in-1 card reader (supported formats: SD, miniSD, MicroSD, SDHC, MS, MS-Duo, MMC, RS-MMC, MMC-Micro, MSPRO, MS-PRO Duo, MS-Pro HG, MS-Pro HG Duo, M2, xD picture card) |
| Express card slots | 1 (34/54 mm) |
| Kensington Lock support | 1 |
| Interface Module notes | Card reader: An adapter is needed for the following card formats: RS-MMC, MMC-Micro, miniSD, MicroSD, SDHC, MS-Duo, MS-PRO Duo, MS-Pro HG, MS-Pro HG Duo, M2 |

Communication

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| Bluetooth | 2.1 (integrated) |
| LAN type | Gigabit Ethernet (10/100/1000 Mbit/s) |
| WLAN | Built-in WLAN (Wireless Local Area Network) |

WLAN (optional)

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|---------------------|--|
| WLAN name | pre-n WLAN (IEEE 802.11a/b/g/pre-n) |
| WLAN max. data rate | up to 300 Mbps |
| WLAN encryption | WEP, WPA, WPA2 |
| WLAN notes | For use in: BE, CH, DK, DE, EE, FI, FR, EL, IE, IS, IT, LI, LV, LT, LU, MT, NL, NO, PL, AT, PT, SE, SK, ES, CZ, HU, UK, CY |

Audio

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| Audio type | On board |
| Audio codec | Realtek ALC888 |
| Audio features | Support of high-definition audio for S/PDIF output with up to 7.1 channels 2x built-in speakers (1.5 W each) Built-in digital array microphone Sound volume control via function key |

AMILOcam

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| Camera | Logitech® QuickCam®, 1.3 megapixel |
| Frame rate | 30 per second |
| Camera features | Auto focus Automatic brightness adjustment with status LED (blue: on, red: streaming / application on) Low-light technology for great video-quality even in dark surrounding |
| Camera notes | AMILOcam frame rate can vary significantly depending on the used software application. |

Input devices / Control buttons

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| Power Button | Located above the keyboard, back lighted |
| Keyboard | Spillproof keyboard |
| Number of keyboard keys | 85 |
| Keyboard notes | The keyboard is spill-proof up to 50ml. This is enough to protect your notebook from an accidental spill. However, we recommend a backup as well as a system shut-down should liquids come into contact with the keyboard. The spill-proof protection does not prevent data loss caused by water damage. If this should happen, please contact your local customer service desk. |
| Input device(s) | Hidden touchpad, with left and right mouse button, touchpad disable function via function key combination (Fn+F6) |
| Multimedia keys | Located on top of the keyboard to launch the following applications: Silent mode (reduce noise level / fan speed, by reducing the CPU performance, office applications, Internet and DVD playback are not affected) DVD / multimedia playback ODD eject |

Hot keys

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|----------------|---------------------------|
| Hot key Fn+F1 | WLAN / Bluetooth on / off |
| Hot key Fn+F3 | Mute on / off |
| Hot key Fn+F4 | Volume down |
| Hot key Fn+F5 | Volume up |
| Hot key Fn+F6 | Touchpad on / off |
| Hot key Fn+F7 | AMILOcam on / off |
| Hot key Fn+F8 | Brightness down |
| Hot key Fn+F9 | Brightness up |
| Hot key Fn+F10 | Display switch |
| Hot key Fn+F11 | Silent mode |
| Hot key Fn+F12 | S3 Sleep mode |

Status indicators

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| Status indicators | The notebook has 3 status LEDs Power status (& suspend) Blue (always on): on Blue blinking: stand by None: off Battery charge Blue (always on): full Blue blinking: charging Red blinking: < 10 % capacity WLAN / Bluetooth Blue: on None: off |
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Power supply

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| AC adapter | 20 V / 90 W (4.5 A) |
| Rated voltage range | 110 - 240 V (AC Input) |
| Rated frequency range | 50 - 60 Hz |
| Battery features | ACPI 3.0 supported; Dynamic charge supported (rapid charge) |

Energy consumption

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| S0 (idle mode) | 15.9 W |
| S0 (max. active mode) | 30.2 W |
| S3 (stand by / energy saving mode) | 0.43 W |
| S4 (hibernate) | 0.01 W |
| S5 (off mode) | 0.01 W |
| ACPI functions | ACPI 3.0 compliant for Vista requirement Power on stand by (S1 LCD off) Stand by / energy saving mode (S3 save to RAM) Hibernate mode (S4 save to disk) Off mode (S5 soft off) |
| Energy consumption notes | Maximum active mode tested with 3DMark 2006. |

Noise emission

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| Idle mode | 27.5 dB(A) (silent mode off) |
| Maximum active mode | 33.2 dB(A) (silent mode off) |
| Noise notes / description | Noise emission (idle mode) tested with QAFE 8.01, sieve.exe, Diskload.exe according to ISO 779 and ISO 9296 Noise emission (max. active mode) tested with QAFE 8.01, sieve.exe, Diskload.exe according to ISO 779 and ISO 9296 |

Dimensions / Weight / Environmental

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|-------------------------------|---|
| Dimension (W x D x H) | 318 x 235 x 36.5 (front) / 41.0 (back) mm |
| Weight | Approx. 2.4 kg |
| Weight notes | Weight may vary depending on actual configuration |
| Operating ambient temperature | 5 - 35°C |
| Operating relative humidity | 10 - 90 % (relative humidity, non-condensing) |

Compliance

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|-----------------|---|
| Europe | CE Marking R&TTE (WLAN, Bluetooth®) |
| Global | RoHS (Restriction of hazardous substances) |
| Russia | GOST (WLAN) |
| Compliance link | https://sp.ts.fujitsu.com/sites/certificates/default.aspx |

Application software

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|----------------------|---|
| Home office software | Microsoft® Office Ready (60-day trial version for Microsoft® Office Professional software package, only with Windows® 7 operating system) Microsoft® Works (only with Windows Vista® operating system) Microsoft® Office Home and Student Trial (60-day trial version, only with Windows Vista® operating system) Adobe Acrobat Reader Windows Mail (only within Windows Vista® operating system) Windows Calendar (only within Windows Vista® operating system) |
|----------------------|---|

Application software

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|--------------------------------|--|
| Multimedia software | Nero Essentials S (burning software) Vista DVD Playback Pack (DVD playback software, only within Windows Vista® operating system) Windows Media Player (playback of music CDs and Video DVDs) Logitech® QuickCam® application software |
| Internet software | Microsoft® Internet Explorer Country specific Internet provider |
| Security software | Norman security software solution |
| Additional software (optional) | Windows Media Center edition (optional) - Share and stream media easily in your home network - Organize media (videos, music, pictures) - Watch and record TV shows (For certain aspects of Windows Media Center functionality, a TV tuner and additional hardware may be required. To watch Internet TV, Internet access is required. Free Internet TV content varies by geography. Some content may require additional fees.) |

Security

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| Physical security | Kensington Lock support Lid switch (hidden) |
| User security | User and supervisor password |

Warranty

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| Standard Warranty | 1 year / 2 years (depending on country) |
| Service level | Collect & Return Service / Bring in (depending on county specific requirements) |

Maintenance and Support Services - the perfect extension

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| Recommended Service | 3 years, Collect & Return Service |
| Spare Parts availability | 3 years |
| Service Weblink | http://ts.fujitsu.com/Supportservice |

Accessories

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|----------------------|---|
| Accessories included | AC Adapter 90 W First battery (6 or 9 cell) Notebook protection sleeve Cleaning wipe Manuals (manual on hard disk, quick start guide, safety guide, warranty guide, recovery guide) |
| Accessories link | http://ts.fujitsu.com/accessories |



reddot design award
honourable mention 2009



Information about environmental care, policies, programs and our Environmental Guideline FSC 03230:

<http://ts.fujitsu.com/aboutus>

Take back and Recycling information:

<http://ts.fujitsu.com/recycling>

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