

AMILO Notebook Xa 3530

The art of entertainment

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Version 2

Pages 6

Experience impressive entertainment, exciting new technologies, inspiring innovations and features unified in the AMILO Notebook X series.

Key Features

Processor technology

- AMD next-generation mobile processor technology

Operating System

- Windows Vista® Home Premium

Innovation

- ATI Hybrid Graphics technology features multi-GPU performance capabilities, automatic power state adjustment for power-savings, and multi-display functionality with the ATI Mobility Radeon™ HD 3650 graphic card with 512 MB dedicated VRAM
- ATI PowerXpress™ technology that dynamically switches between discrete and onboard graphics. Experience great graphics performance while plugged in or switch over to energy efficient integrated graphics when on-the-go for extended battery life

Reliability

- Spill-proof keyboard to protect your notebook against accidentally spilt liquids
 - Enough time to shut down the notebook
 - Have the liquid removed from the notebook
 - Protects your investment and your data
- Engineered in Germany means the test center in Germany tests conformity to international standards and customer-specific requirements
- A+ grade LCD panels for better picture quality

Ease of use

- The silent mode function that causes a noticeable reduction in fan noise
- Multimedia LightTouch™ bar and integrated Vista remote control let you easily play, stop or pause your DVDs or music CDs

Multimedia and Entertainment

- 17-inch LCD WXGA+ display with BrilliantView technology for vivid colors, amazing sharpness and impressive contrast
- The integrated AMILOcam (1.3 mega pixels) with low-light technology for great video quality even in low-light conditions and the built-in digital array microphone are perfect for Internet telephony (VoIP) and video chats
- Enjoy your favorite Hollywood blockbuster on an external display via HDMI (with HDCP support)

Options

- Integrated Blu-ray Disc™ drive and integrated hybrid TV tuner for the ultimate entertainment experience
- Dual hard disk drive with Raid 0/1 function
 - Raid 0 function: implements data striping to provide the best possible performance
 - Raid 1 function: defines disk mirroring for simultaneous writing of data on two disks
 - If one drive becomes defect, all data can be accessed on the second drive



Fujitsu Siemens Computers recommends Windows Vista® Home Premium

Operating system¹ and Recovery

Operating system	Genuine Windows Vista® Home Premium (32-bit version)
Fujitsu Siemens Computers Recovery Program	Backup and restore the original status of the hard disk and create system restore disks

Architecture

System architecture	AMD mobile processor technology
Chipset	AMD 780G + AMD SB700

Processors¹

AMD Turion™ X2 Ultra processor	ZM-80 (2.1 GHz, 2 MB L2 cache) ZM-82 (2.2 GHz, 2 MB L2 cache) ZM-84 (2.3 GHz, 2 MB L2 cache) ZM-86 (2.4 GHz, 2 MB L2 cache)
AMD Turion™ X2 Dual-Core processor	RM-70 (2.0 GHz, 1 MB L2 cache) RM-72 (2.1 GHz, 1 MB L2 cache)
AMD Athlon™ X2 Dual-Core processor	QL-60 (1.9 GHz, 1 MB L2 cache) QL-62 (2.0 GHz, 1 MB L2 cache)

Memory

	2 SO-DIMM memory slots (no memory on board)
Memory speed	800 MHz
Memory type	DDR 2 RAM
Memory modules	1024 or 2048 MB
Max. memory size ^{1, 2}	4096 MB

Drives**Hard disk drive**

HDD type	SATA
HDD size	2.5-inch
HDD speed	5400 rpm
HDD cache	8 MB
HDD capacity ¹	250 or 320 GB with single HDD; 500 (2x 250) or 640 (2x 320) GB with dual HDD

Optical disc drive¹ (built-in)

ODD type	SATA
ODD technology	SuperMulti-format DVD burner with dual double layer (DL) support
ODD read speed	CD-ROM 24x, DVD-ROM 8x
ODD 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) 4x, DVD-R DL (8.5 GB) 4x, DVD-RAM 5x

Blu-ray Disc™ (optional)¹

ODD technology	Built-in Blu-ray Disc™ drive incl. SuperMulti-format DVD burner with dual double layer (DL) support
ODD read speed	BD 1.6x, CD-ROM 24x, DVD-ROM 8x
ODD write speed	CD-R 8x, CD-RW 8x, DVD+R 8x, DVD+RW 4x, DVD-R 8x, DVD-RW 4x, DVD+R DL (8.5 GB) 2.4x, DVD-R DL (8.5 GB) 2x, DVD RAM 5x

Display

Display type	BrilliantView LCD
Display size	17-inch
Display resolution (intern)	1440 x 900 pixels
Display resolution (extern)	1920 x 1200
Resolution type	WXGA+
Reaction time	16 ms
Brightness (typ.)	200 NIT
Contrast (typ.)	400 :1
Compliance with standards	ISO 13406-2 class II

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Graphics

Dedicated graphics (full name)	ATI Mobility Radeon™ HD 3650 with Hybrid Graphics
Dedicated video memory	512 MB GDDR3
Onboard graphics chip	ATI Radeon™ HD 3200
Shared video memory ³	Up to 1860 MB depending on installed main memory
3D Benchmark 2006	3700
Graphic features	<ul style="list-style-type: none"> ■ ATI PowerExpress™ technology ■ DirectX® 10 support

Interfaces

Video	1x HDMI (1.3a) (incl. HDCP and S/PDIF out), 1x VGA
Audio	1x line in, 1x microphone in, 1x line out /headphone out, 1x line out / S/PDIF out
Network	1x LAN (RJ-45)
Data	1x eSATA combined with USB 2.0, 3x USB 2.0, 1x IEEE1394, 1x CIR 1x ExpressCard slot (54 / 34 mm), 1x 15-in-1 card reader ⁴ 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
TV tuner (option) ¹	1x DVB-T / analog antenna in, 1x AV in
Power supply	1x DC-in

Communication

Integrated Bluetooth®	2.1
LAN (Local Area Network)	10 / 100 / 1000 Mbps
Built-in WLAN (Wireless Local Area Network)	Yes
WLAN type	draft-n 802.11a/b/g/n
WLAN max. data rate	up to 300 Mbps
WLAN encryption	WEP, WPA and WPA2
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

Multimedia**Audio**

Audio chip	Support of HD audio for S/PDIF output with up to 7.1 channels Realtek ALC888
Speakers	2x built-in speakers (2 W each)
Microphone	Built-in digital array microphone
Subwoofer	1x built-in subwoofer (3 W)
Input device	Sound volume control via function key or via LightTouch™ bar

AMILOcam

Image sensor	1.3 mega pixels webcam
Frames per second	30 ⁵
Features	<ul style="list-style-type: none"> ■ Powered by Logitech® ■ 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

Hybrid TV tuner (optional)¹

Standard	Built-in DVB-T / analog hybrid TV tuner
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Input devices / Control buttons	
Power button	Located left of the keyboard
Keyboard	Spill-proof keyboard with 85 keys, 21 key number block
Touchpad	Hidden touchpad, with left and right mouse button, touchpad disable function via function key combination (Fn+F6)
Multimedia keys	Multimedia LightTouch™ bar located on top of the keyboard to launch the following applications: <ul style="list-style-type: none"> ■ Silent mode (reduce noise level / fan speed, by reducing the CPU performance, office applications, Internet and DVD playback are not affected) ■ Hybrid graphics to switch between onboard graphics for extended battery runtime and external graphics for better performance ■ DVD playback ■ Skip rewind ■ Play / pause ■ Skip forward ■ Volume control
Hot keys	
	The following hot keys or key combinations are available <ul style="list-style-type: none"> ■ Fn+F1 WLAN / BT on / off ■ Fn+F2 TV-tuner on / off ■ Fn+F3 Mute on / off ■ Fn+F4 Volume down ■ Fn+F5 Volume up ■ Fn+F6 Touchpad on / off ■ Fn+F7 AMILOcam on / off ■ Fn+F8 Brightness down ■ Fn+F9 Brightness up ■ Fn+F10 Display switch ■ Fn+F11 Silent mode ■ Fn+F12 Suspend <p>Number block 4 individually configurable quick-start application buttons (A1, A2, A3, A4)</p>
Status indicators	
	The notebook has 3 status LEDs: <ul style="list-style-type: none"> ■ 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
Security	
Supervisor and user password	Yes
Kensington lock	Yes
Lid switch (hidden)	Yes
ACPI functions	
	ACPI 3.0 compliant for Vista requirement <ul style="list-style-type: none"> ■ S1 LCD off ■ S3 save to RAM ■ S4 save to disk ■ S5 soft off ■ Silent Mode
Power System	
Battery ⁶	
Battery type ¹	Lithium-Ion battery 8 cells, 14.8 V / 2400 mAh (cell) / 4800 mAh (pack)
Battery runtime (idle mode) ⁷	Up to 3:20 hours (with onboard graphics); 2:20 h (with external graphics)
Battery runtime (DVD playback) ⁸	Up to 2:20 hours (with onboard graphics); 2:00 h (with external graphics)
Battery charging time (idle mode) ⁹	Up to 1:15 hours
Battery charging time (maximum active mode) ¹⁰	Up to 1:25 hours
Battery charging time (normal use) ¹¹	Up to 1:25 hours
Battery charging time (off mode)	Up to 1:40 hours

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AC Adapter Wide Range AC adapter Output	Dynamic charge supported, ACPI 2.0 supported 110 - 240 V AC, 50 - 60 Hz 120 W with 20 V DC, 6 A
Energy consumption S0 (idle mode) S0 (max. active mode) ¹² S3 (stand by / energy saving mode) S4 (hibernate) S5 (off mode)	18.6 W (with onboard graphics); 23.3 W (with external graphics) 52 W (with onboard graphics); 67.6 W (with external graphics) 0.5 W (with onboard and external graphics) 0.03 W (with onboard and external graphics) 0.03 W (with onboard and external graphics)
Noise emission Idle mode ¹³ Maximum active mode ¹⁴	24.5 dbA (Silent Mode off); 19.7 dbA (Silent Mode on) 28.5 dbA (Silent Mode off); 26.3 dbA (Silent Mode on)
Operating conditions Operational AC input	5 °C to 35 °C (ambient temperature) 10 % to 90 % relative humidity, non-condensing 100 - 240 V, 50 - 60 Hz
Dimensions and weight W x D x H Weight	398 x 295 x 37.0 (front) / 44.0 (back) mm 3.6 kg ¹⁵
Certifications	GOST (WLAN) CE Marking R&TTE (WLAN, Bluetooth®)
Warranty	1 year collect and return
Operational Software Home office	Microsoft® Works Microsoft® Office Home and Student Trial Adobe Reader Windows Mail (within Vista operating system) Windows Calendar (within Vista operating system)
Multimedia	Nero Essentials S (CD / DVD write software) Vista DVD Playback Pack (DVD playback software) Windows Media Player (within Vista operating system) Windows Media Center (within Windows Vista® Home Premium operating system) Logitech® QuickCam® application software Optional ¹ CyberLink Power DVD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive)
Internet	Microsoft® Internet Explorer Country specific Internet provider
Security	Norman security software solution

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Accessories

Included	AC adapter 120 W First Battery 8 cells Integrated remote control
Manuals	Manual (on hard disk), quick start guide, safety guide, warranty guide, recovery guide
Drivers	Updates downloadable at http://www.fujitsu-siemens.com

¹ Depending on exact configuration. Please check at your local retailer

² DISCLAIMER: Up to 1 GB may not be available with 32-bit operating systems due to system resource requirements if system is preinstalled with 4096 MB RAM.

³ Shared video memory size may vary depending on configuration. Used video memory size depends on Microsoft® Windows Vista® memory management.

- 1024 MB system memory enables up to 638 MB static and shared memory

- 2048 MB system memory enables up to 1150 MB static and shared memory.

- 3072 MB system memory enables up to 1390 MB static and shared memory.

- 4096 MB system memory enables up to 1860 MB static and shared memory.

⁴ 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

⁵ AMILOcam frame rate can vary significantly depending on the used software application.

⁶ DISCLAIMER: Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. 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.

⁷ Tested with Battery Mark 4.0.1 ("power saver mode")

⁸ DVD playback tested with Vista DVD playback

⁹ Tested with Battery Mark 4.0.1

¹⁰ Tested with 3DMark 2006

¹¹ DVD playback tested with Vista DVD playback

¹² Tested with 3DMark 2006

¹³ According to ISO 7779 and ISO 9296

¹⁴ Tested with QAFE 8.01 / 2. sieve.exe(CPU stress test) / Diskload.exe according to ISO 7779 and ISO 9296

¹⁵ Weight may vary depending on actual configuration.

The configuration described in this document is generic only and non-binding. For the exact configuration of your AMILO, please contact your licensed dealer.