Data Sheet

We make sure



AMILO Notebook Xi 3650 The art of entertainment

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Version 5

Pages 6

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

Key Features

Processor technology

■ Latest Intel® Centrino® 2 processor technology (optional)¹ for high-definition digital entertainment experience, blistering performance, longer-lasting battery life and the new wireless standard for connectivity

Operating System

■ Windows Vista® Home Premium

Innovation

- NVIDIA® GeForce® 9600M GT graphic card with 512 MB GDDR3 dedicated highspeed VRAM deliver the ultimate balance between mobility and performance for astounding HD playback capabilities combined with 3D features to enable visually-intense applications and games
- NVIDIA HybridPower[™] technology allows you to unleash graphics performance when you need it, or instantly switch gears to a lower power mode from the motherboard GPU for longer battery life and quieter operation. This reduces system power consumption dramatically and extends battery life by up to 25%

Reliability

- Spill-proof keyboard² to protect your notebook against accidentially 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

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

Multimedia and Entertainment

- 18.4-inch HD+ or Full HD display with 16:9 aspect ratio and BrilliantView technology that provides 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
- Connect the AMILO Notebook Xi 3650 to an external display via HDMI (with HDCP support)

Options

- Integrated Blu-ray Disc[™] drive 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, so if one drive becomes defect, all data can be accessed on the second drive







Model: Eclipse black







Operating system 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
	or individual recovery media on CD or DVD are included
Product Design Color	Reveal white or eclipse black
Architecture System architecture Chipset	Intel® Centrino® 2 processor technology (optional) ¹ Intel® GM45 + ICH9M-Enhanced
Processors³ Intel® Core™2 Duo processor	T5800 (2.0 GHz, 800 MHz FSB, 2 MB L2 cache) T6400 (2.00 GHz, 800 MHz FSB, 2 MB L2 cache P7350 (2.0 GHz, 1066 MHz FSB, 3 MB L2 cache) P7450 (2.13 GHz, 1066 MHz FSB, 3 MB L2 cache) P8400 (2.26 GHz, 1066 MHz FSB, 3 MB L2 cache) P8600 (2.4 GHz, 1066 MHz FSB, 3 MB L2 cache) T9400 (2.53 GHz, 1066 MHz FSB, 6 MB L2 cache) T9550 (2. 66 GHz, 1066 MHz FSB, 6 MB L2 cache)
Memory Memory speed Memory type Memory modules Max. memory size ^{3, 4}	2 SO-DIMM memory slots (no memory on board) 1066 MHz DDR 3 RAM 1024 or 2048 MB 4096 MB
Drives Hard disk drive HDD type HDD size HDD speed HDD cache HDD capacity ³	SATA 2.5-inch 5400 rpm 8 MB 250, 320 or 500 GB with single HDD; 500 (2x 250), 640 (2x 320) or 1000 (2x 500) GB with dual HDD
Option ³ : HDD type HDD size HDD speed HDD cache HDD capacity ³	SATA 2.5-inch 4200 rpm 8 MB 500 GB with single HDD; 1000 (2x 500) GB with dual HDD
Raid function (optional, if two HDDs are installed)	Raid 0: stripe set for performance Raid 1: mirroring for security Raid off: two physical HDDs
Optical disc drive ³ (built-in) ODD type ODD technology ODD read speed ODD write speed	SATA SuperMulti-format DVD burner with double layer (DL) support CD-ROM 24x, DVD-ROM 8x 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) ³ ODD technology ODD read speed ODD write speed	Built-in Blu-ray Disc [™] drive incl. SuperMulti-format DVD burner with double layer (DL) support BD 1.6x, CD-ROM 24x, DVD-ROM 8x 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 with dual lamp (90% NTSC)

Aspect ratio 16:9 Resolution type Full HD 18.4-inch Display size

Display resolution (intern) 1920 x 1080 pixels Display resolution (extern) 1920 x 1200 pixels

Reaction time (typ.) 8 ms 300 NIT Brightness (typ.) Contrast (typ.) 800:1

Compliance with standards ISO 13406-2 class II

Option³

BrilliantView LCD Display type

Aspect ratio 16:9 Resolution type HD+ Display size 18.4-inch

Display resolution (intern) 1680 x 945 pixels Display resolution (extern) 1920 x 1200 pixels

Reaction time (typ.) 16 ms 200 NIT Brightness (typ.) Contrast (typ.) 600:1

Compliance with standards ISO 13406-2 class II

Graphics

Dedicated graphics (full name) Dedicated video memory Onboard graphics chip Shared video memory

3D Benchmark 2006 Graphic features

NVIDIA® GeForce® 9600M GT 512 MB GDDR3, 1066 MHz

Mobile Intel® Graphics Media Accelerator 4500MHD Up to 1295 MB (depending on installed main memory) Up to 5044 points (depending on configuration)

NVIDIA® HybridPower™ technology (hybrid graphic technology)

NVIDIA® PureVideo® HD technology

DirectX® 10 support

Interfaces

Video 1x HDMI (1.3) (incl. HDCP and S/PDIF out), 1x VGA

Front: Audio 1x line in, 1x microphone in, 1x line out /headphone out,

Side: 1x line out / S/PDIF out

1x LAN (RJ-45) Network

1x eSATA combined with USB 2.0, 3x USB 2.0, Data

1x IEEE1394 (FireWire™), 1x CIR, 1x ExpressCard slot (54 / 34 mm),

1x 15-in-1 card reader

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

Power supply 1x DC-in

Communication

Integrated Bluetooth® LAN (Local Area Network)

Built-in WLAN (Wireless Local Area Network) WLAN brand name

WLAN type WLAN max. data rate WLAN encryption

For use in

Gigabit Ethernet LAN (10 / 100 / 1000 Mbps)

Yes

Intel® WiFi Link 5100 AGN draft-n 802.11a/g/n up to 300 Mbps WEP, WPA and WPA2

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 Support of high-definition audio for S/PDIF output with up to 7.1 channels; 7.1 audio support also via 4x audio jacks (analog) Audio chip Realtek ALC888 2x built-in speakers (2 W each) Speakers Microphone Built-in digital array microphone Subwoofer 1x built-in subwoofer (3 W) Sound volume control via function key or via LightTouch™ bar Input device **AMILOcam** Image sensor 1.3 mega pixels webcam 30 Frames per second Features 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 Input devices / Control buttons Located left of the keyboard, back lighted Power button Spill-proof keyboard² with 85 keys, 21 key number block Keyboard Touchpad Hidden touchpad, with left and right mouse button, touchpad disable function via function key combination (Fn+F6) Multimedia LightTouch™ bar located on top of the keyboard to launch the Multimedia keys following applications: Silent mode (reduce noise level / fan speed, by reducing the CPU performance, office applications, Internet and DVD playback are not 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 Remote Control 26-key Vista remote control, shipped in ExpressCard slot Hot keys The following hot keys or key combinations are available WLAN / Bluetooth on / off Fn+F1 Fn+F3 Mute on / off Fn+F4 Volume down Fn+F5 Volume up Touchpad on / off Fn+F6 Fn+F7 AMILOcam on / off Fn+F8 Brightness down Fn+F9 Brightness up Fn+F10 Display switch Fn+F11 Silent mode Fn+F12 Suspend Number block 4 individually configurable quick-start application buttons (A1, A2, A3, A4) 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

Convity	
Security Supervisor and user password	Yes
Kensington lock	Yes
Lid switch (hidden)	Yes
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)
Power System	
Battery ⁸	lithium lan hattam.
Battery type	Lithium-lon battery 8 cells, 14.8 V / 2400 mAh (cell) / 4800 mAh (pack)
Battery life (idle mode) ⁹	Onboard graphics: up to 4.7 hours
	Dedicated graphics: up to 3.6 hours
Battery life (DVD playback) ¹⁰	Onboard graphics: up to 3.1 hours
Dettem coherence time (idle med de)11	Dedicated graphics: up to 2.7 hours
Battery charging time (idle mode) ¹¹ Battery charging time (maximum active mode) ¹²	Onboard graphics / dedicated graphics (charging 90%): up to 2.1 hours Onboard graphics (charging 90%): up to 2.2 hours
battery charging time (maximum active mode)	Dedicated graphics (charging 90%): up to 2.5 hours
Battery charging time (normal use) ¹³	Onboard graphics (charging 90%): up to 2.1 hours
	Dedicated graphics (charging 90%): up to 2.05 hours
Battery charging time (off mode)	Onboard graphics (charging 90%): up to 2.15 hours
	Dedicated graphics (charging 90%): up to 2.1 hours
AC Adapter	Dynamic charge supported, ACPI 3.0 supported
Wide Range AC adapter	110 - 240 V AC, 50 - 60 Hz
Output	90 W with 20 V DC, 4.5 A
_	
Energy consumption	Onboard graphics, 44.45 Mr. Dadicated graphics, 47.20 Mr.
S0 (idle mode) S0 (max. active mode) ¹⁴	Onboard graphics: 11.15 W; Dedicated graphics: 17.30 W Onboard graphics: 58.59 W; Dedicated graphics: 84.14 W
S3 (stand by / energy saving mode)	Onboard graphics: 2.05 W; Dedicated graphics: 4.14 W Onboard graphics: 2.05 W; Dedicated graphics: 1.56 W
S4 (hibernate)	Onboard graphics/Dedicated graphics: 0.51 W
S5 (off mode)	Onboard graphics/Dedicated graphics: 0.36 W
Noise emission Idle mode ¹⁵	27.9 dD(A) (ailant made off)
Maximum active mode ¹⁶	27.8 dB(A) (silent mode off) 28.3 dB(A) (silent mode off)
Maximum active mode	20.0 db(A) (shell filode oil)
Operating conditions	
Operational	5 °C to 35 °C (ambient temperature)
	10 % to 90 % relative humidity, non-condensing
Dimensions and weight	
WxDxH	438 x 294 x 43.5 (front) / 50.5 (back) mm
Weight	3.9 kg ¹⁷
Certifications	GOST (WLAN)
	CE Marking
	R&TTE (WLAN, Bluetooth®)
Warranty	Country specific terms
Application Software	
Home office	Microsoft® Works
	Microsoft® Office Home and Student Trial
	Adobe Reader Windows Mail (within Vista appraising system)
	Windows Mail (within Vista operating system) Windows Calendar (within Vista operating system)
	Trings was defended (within vista operating system)

Nero Essentials S (CD / DVD write software) Multimedia 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

Optional³

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

Accessories

Included AC adapter 90 W

First Battery 8 cells Integrated remote control

Cleaning wipe

Optional Find out more: www.fujitsu-siemens.com/accessories

Manuals Manual (on hard disk), quick start guide, safety guide, warranty guide,

recovery guide

Drivers Updates downloadable at http://www.fujitsu-siemens.com

Awards





Notebookjournal.de Germany - 01/2009 "Best 18.4 inch notebook"

Processor technology depends on actually installed processor:

Depending on exact configuration. Please check at your local retailer

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

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Fujitsu Siemens Computers http://www.fujitsu-siemens.com/ Company stamp

² DISCLAIMER: 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.

⁴ 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 ⁵ 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 271 MB shared memory - 2048 MB system memory enables up to 783 MB shared memory

^{- 3072} MB system memory enables up to 1295 MB shared memory

⁴⁰⁹⁶ MB system memory enables up to 1295 MB shared memory

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

BISCLAIMER: 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

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

¹⁰ DVD playback tested with Vista DVD playback

¹¹ Tested without test program

¹² Tested with 3DMark 2006

¹³ DVD playback tested with Vista DVD playback

¹⁴ Tested with 3DMark 2006

¹⁵ Tested according to ISO 7779 and ISO 9296

¹⁶ Tested with QAFE 8.01 / 2. sieve.exe (CPU stress test) / Diskload.exe according to ISO 7779 and ISO 9296

¹⁷ Weight may vary depending on actual configuration