

N51Tp/Te AMD PUMA

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Rev 0.6

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2-Spindle, AMD Puma 15.6" HD LED TFT Panel

Specifications

Processor & Cache	AMD Turion(tm) 64 Mobile Technology Dual Core n Lion CPU ZM84/82/80, S1g2 package, 2M L2 cache, 800MHz, Hyper Transport 3.0 n Lion CPU RM-72, S1g2 package, 1M L2 cache, 800MHz, Hyper Transport 3.0 AMD Athlon 64 Mobile Technology Dual Core n Lion CPU QL-62 S1g2 package, 1M L2 cache, 667MHz, Hyper Transport 3.0
BIOS	n AMI BIOS code n 8Mb Flash EPROM n PMU, Plug & Play n Boot from USB, LAN,Ai-Flash 3,Ai-Flash 4, Ai-Flash 5
Chipset	n AMD RS780M + SB700 HT3.0(5200MHz)
Main Memory	n 2 x SODIMM Sockets for Expansion Up to 4 GB (BTO Option) n Dual Channel DDR2 800 DRAM support
Display	✦ 15.6" VESA Like LED HD 1366*768; Full-HD 1920*1080 (N51 BTO) ✦ AI Light Sensor
Graphics & Video Module	n ATI M96(Tp) with 1G VRAM, n ATI M92(Te) (New package), with 512M VRAM n DDR2 VRAM(64Mx16): 1G(Tp); 512M(Te) n DX10.1 Support n H.264/VC-1 Hardware decoding n HDCP support for HDMI port n PCI-e Gen2 Support
CRT Display Modes	n VGA 640 x 480 256/64K/16.7M colors n SVGA 800 x 600 256/64K/16.7M colors n XGA 1024 x 768 256/64K/16.7M colors n UXGA 1600 x1200 256/64K/16.7M colors
PC Cards Slot Multi-Card Reader	n New Card supported n One built-in 8-in-1 card reader support u MMC/ SD/Mini-SD /XD u Memory Stick/ MS Pro/ MS-Duo/ MS-Pro-Duo
Hard Disk Drive	n 2.5" 9.5/12.5mm SATA HDD n 160G/200G/250G/320G/500G 5400rpm n Support Hybrid Disk (Ready Drive)
Optical Storage Device	n Interchangeable 5.25" SATA DVD Super Multi n Blue-Ray
LAN	n On board 10/100/ 1000 Mbps Fast Ethernet controller n Support Wake-On-LAN on S4/S5 AC-In Mode only
Network Connectivity	n Integrated mini-Card 802.11b/g (BTO option) n Integrated mini-Card 802.11b/g/n (BTO option) n On board 10/100/1000 Mbps Fast Ethernet Controller n Built-In Bluetooth V2.1 + EDR Module
TV Tuner	n Full size Mini-Card interface n Hybrid TV Tuner /Pure Digital TV Tuner(BTO)
LED Status Indicator	Front side n Power-on/Suspend (Orange)

n	Bat. Charging/full/low (Orange)
n	Wireless indicator (Blue)
n	Bluetooth Indicator (Blue)
n	Storage Device Access (Blue)
Near Power button	
n	Num Lock (White)
n	Cap. Lock (White)
n	Ionizer (White)
Cap sensor	
n	Mode Switch (Blue)
(Below LEDs dim 3 times when activated.)	
n	Rewind (Blue)
n	Play/Pause
n	Stop
n	Forward
n	Volume up/down
n	Ionizer
n	Hybrid Power4Gear
n	Splendid
n	Touchpad disable

Video Camera	n Fixed Camera, 1.3M n Fixed Camera, 2.0M n Without Camera
Keyboard	n Universal Numeric K/B n Vista K/B Start Button
Ionizer	n Sunyou DC5V, 1.8KV
Interface	n One VGA port/Mini D-sub 15-pin for External Monitor n HDMI port x1 n 3x USB 2.0 Ports n 1xE-SATA port n 1 x TV RF in (Optional w/ TV tuner) n One IEEE 1394 Type A Jack n Two Audio Jacks: Mic-in and SPDIF Speaker-out n One LAN RJ-45 ✦ One Kensington Lock n Build in 2 Full-size mini-Card n One Express card
Audio	n Built-in Azalia compliant audio chip n Built-in Stereo Speakers(2W) and microphone n Support Altec-Lansing Speaker n Realtek ALC663 n Support Audio Jack Detector for Vista Basic Logo n Support Audio CODEC criteria for Vista Premium Logo
Security	n Fingerprint recognition (Option) n Support ADSM v2 n Pre-OS Authentication by programmable key code n BIOS Booting User Password Protection n HDD User Password Protection and Security Lock n Kensington Lock hole provided

Hot Keys	n 1 x Power Button n 1 x WLAN/Bluetooth On/Off Switch n 1 x Express Gate Button n Instant launch Keys (Cap Sensor) u 5 buttons, 1 for mode switch, others for following function	Additional Spec	S/W Utility	Asus Built or modified for Vista n ASUS WinFlash n ASUS Hybrid Power4 Great n ASUS Live Update n ASUS LifeFrame3 n ASUS Virtual Camera n ASUS SmartLogon n ASUS NB Probe n ASUS Net4 Switch(Only in install-all & driver DVD, do not combine in pre-install) n ASUS MultiFrame(Only in install-all & driver DVD, do not combine in pre-install) n ASUS Wireless Console n Express Gate n ASUS Splendid n ASUS Data Security Manager n TPM Utility n ASUS CopyProtect n ASUS Center	
	Mode 1: Hybrid Power4Gear, Splendid, Touchpad disable, Ionizer ; Mode 2: Previous section, Play/Pause, Stop, Next section				Shipment bundle S/W: n Norton Internet Security 2008 n Adobe Acrobat Reader 8 n NERO 8 Essentials (For BD/HD) n ASUSDVD 6 in 1 (For Basic & Business only) n Power Director V6 (For Basic & Business only) n Medi@Show V3 (For Basic & Business only) n Power2Go V5.5 (燒錄功能) n PowerProducer V4 n LabelPrint V2 n WinDVD BD/HD
Function Keys	u Fn+F1 suspend switch u Fn+F2 Wireless/Bluetooth switch u Fn+F3 E-mail (Not printed) u Fn+F4 Internet (Not printed) u Fn+F5 Brightness down u Fn+F6 Brightness up u Fn+F7 LCD on/off u Fn+F8 LCD/External Display switch display u Fn+F9 Touch Pad disable (Not printed) u Fn+F10 Volume on/mute u Fn+F11 Volume down u Fn+F12 Volume up u Fn+Del Insert u Fn+Space Power 4 Gear u Fn+A AI Light sensor On/Off u Fn+C Splendid (not printed) u Fn+V Take picture (not printed) u Fn+Enter(Numeric) Calculator u Fn+↑ Stop u Fn+↓ Play/Pause u Fn+ ← Previous section / Previous Track u Fn+ → Next section / Next Track				
Asus Smart Hybrid Engine	n Support Asus CPU performance boost and power saving design. n Support Asus system power saving design			Regulation	n EMI: USA(FCC-B), JAP(VCCI-B), TWN(檢磁), CCC n Safety: CE, CB, cUL, CCC, Modem: Universal PPT including US (FCC-68), TWN (DGT), PRC (入網證), JPN (JATE), EURO (CTR21) n TWN Green Mark n 大陸節能標章 n EPEAT n EU Flower n Energy Star 4.0 n WEEE, RoHs, SJ/T 11364
Power Management	n Full feature SMI power management, Stand-by, Suspend to Disk, and Suspend to RAM n ACPI 1.0b and 2.0 (partially) and 3.0 (partially) supported n MDP 2003 compatible			Windows Certification	n Compatibility: Window Vista, WinKey n Language: US Int'l, JAP, TWN n Supported OS: Vista
Battery Pack & Life	n Li-Ion 53WHrs (6 cells: 4800mAh, 3S2P), n Li-Ion 80WHrs (9 cells: 7200mAh, 3S3P)			Keyboard Language	n US (TWN), JAP, UK, Kor before M/P n France, GR CR, DN, CZ, IT, BL, NW, PO, SF, SP, SW, SC, FR, JP, RU, UK Spain, AR,TUR when M/P
AC adapter	n Output : 19V,90W n Input : 100~240V AC, 50/60Hz universal n 3/ 2 pin compact power supply system				
Pointing Device	n Built-in Wide Type Touch pad pointing device n 2 click buttons				
Heat Dissipation	n ADTD (Developed by Asus) to handle 35W CPU thermal envelope n High-exchange efficiency copper molding heatsink with heat-pipes n Temperature-Controlled cooling fan				
Dimensions/Weight	n 369 x 276 x <u>29-43 mm</u> n 2.95kg with 6 cell battery				
Support OS	n Windows Vista (64/32 bit), 64/32-bit Driver CD with Driver WHQL support.				
Dummy Card	n New card: 54 Dummy card storage device (SD & MS) n SD card: Choose from Asus SD dummy card pool				
Accessory (option)	n Ai-Flash 4/ Ai-Flash5 n Optical USB mouse n USB data transfer cable support networking and USB 2.0 n USB-COM cable n USB 2.0 HDD module n E-SATA external HDD n Bluetooth Earphone / VOIP Phone n USB TV dongle n USB Port Replicator / Express Card type Replicator				