

RUGGED NOTEBOOKS™

Extreme Rugged™

Black Hawk Duo

Semi Rugged Notebook

Black Hawk Duo Features

- 15.4" Widescreen LCD with available sunlight readable display
- Intel® Core™ Duo 1.86GHz up to Intel® Core™ 2 Duo 2.6GHz
- Intel® Centrino™ with optional 802.11agn
- Optional built-in 3G WWAN module for mobile connectivity
- Optional hardware-based full disk encryption + Secude FinallySecure™
- Optional loss/theft recovery capabilities with BIOS-enabled CompuTrace® by Absolute Software



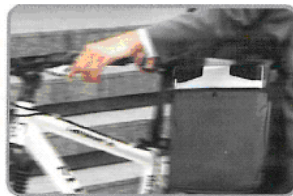
Drop resistant

- Magnesium alloy case
- Optical drive lock design



Spill resistant

- Spill resistant keyboard, touchpad and buttons



Shock resistant

- Anti-shock mounted HDD
- Anti-shock mounted LCD screen

The Black Hawk Duo incorporates the latest hardware, wireless, and security technologies in a rugged package that features a spill proof keyboard and a magnesium alloy case.

With a 15.4" widescreen LCD, Intel® graphics with 384MB shared video memory, and up to a 2.6GHz Core™ 2 Duo processor, the Black Hawk Duo offers desktop-level mobile performance. An optional outdoor viewable transfective display is available for direct sunlight applications.

A wide range of CPU choices, from a 1.8GHz Core™ Duo processor up to a 2.6GHz Core™ 2 Duo, plus available 802.11AGN and built-in 3G WWAN means power and connectivity for road warriors.

Security features available include TPM, SmartCard reader, and hardware-based full disk encryption by Seagate and Secude. Also available are the data protection and recovery features of BIOS-enable CompuTrace® offering loss/theft recovery and asset tracking capabilities.

SECUDE⁺ Seagate
IT SECURITY PRODUCTS & SOLUTIONS

Absolute Software



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Black Hawk Duo Specifications	
CPU	<ul style="list-style-type: none"> Standard Intel® Core Duo 1.86GHz (T2390) 533MHz FSB 1MB L2 Cache Optional Intel® Core 2 Duo 2.0GHz (T5750) 667MHz 2MB L2 Cache, 2.1GHz (T8100) 800MHz 3MB L2 Cache 2.4GHz (T8300) 800MHz 3MB L2 Cache, 2.4Ghz (T7700) 800MHz 4MB L2 Cache, 2.5Ghz (T9300) 800MHz 6MB L2 Cache, 2.6Ghz (T9500) 800MHz 6MB L2 Cache
Core Logic	<ul style="list-style-type: none"> North Bridge: Intel® 965GM South Bridge: Intel® ICH8-M
Memory	<ul style="list-style-type: none"> Two Dual Channel DDRII SODIMM Slots, 1GB Standard, Expandable to 3GB Maximum with XP & Vista 32bit OS
BIOS	<ul style="list-style-type: none"> Computrace Enabled BIOS for use with Lojack for Laptops Recovery Software/Hardware Service AMI BIOS Supports DMI 2.0 / SMBIOS 2.3 / ACPI 3.0 / SLP 2.0
Video System	<ul style="list-style-type: none"> Integrated in Core Logic GMA965GM - AGP 16X Equivalent Hardware 2D/3D Video Graphic Accelerators - A High Performance 128-Bit 3D Engine - Intel® Dynamic Video Memory Technology 3.0 - System Shared Memory up to 384MB
Display	<ul style="list-style-type: none"> 15.4" TFT LCD with XGA Resolution (1280 x 800) Optional 15.4" TFT LCD with WXGA+ Resolution (1440 x 900) Optional built-in 1.3 Mega Pixel Web Camera Optional Sun Light Readable LCD Optional Transflective Sun Light Readable LCD, providing passive sunlight illumination and power saving capabilities
Communication	<ul style="list-style-type: none"> Internal 56Kbps V.90 Fax/Modem
Hard Disk	<ul style="list-style-type: none"> 2.5" 9.5mm High Hard Disk Drive 120GB Standard Supports Optional 160, 250, 320, 500GB 5400RPM "New" Optional 120GB or 160GB 5400RPM Hardware Encrypted Hard Drive Supports Optional 120, 160, 250GB 7200RPM Hard Drive Anti Shock Mounted HDD (Safety of Vibration & Transportation) Standard OR Optional 80GB "Extreme Rugged Drive"
LAN / Wireless	<ul style="list-style-type: none"> Integrated 10 / 100 / 1000Mbps Ethernet with Wake on Lan from S3 on Wired LAN Intel® Pro/Wireless 3945ABG 802.11a/b/g or Optional Intel® 4965 802.11 a/g/n Optional Bluetooth +EDR 2.0 Optional built-in 3G HSDPA/EV-DO
Expansion Cards	<ul style="list-style-type: none"> Express Card 54/34, 4-in-1 Reader (MS-MS Pro-SD-MMC), Smart Card Reader
Keyboard	<ul style="list-style-type: none"> Spill Proof Keyboard (88 US Keys with Windows Logo) Spill-Resistant C-Face (including Keyboard, Touchpad, Speakers, LED)
Optical Media Drive	<ul style="list-style-type: none"> Super Multi DVD/RW Standard or Down Grade to Optional CDRW/DVD Combo
Pointing Device	<ul style="list-style-type: none"> Built-In Touchpad with Two Buttons & Support Right/Left and Roller
Floppy Disk Drive	<ul style="list-style-type: none"> Optional: External USB 3.5 Format, 720KB / 1.44MB / 1.2MB (3 Modes)
I/O Ports	<ul style="list-style-type: none"> Three USB2.0, 15 Pin D-Sub Connector for External Monitor, Mini-Jack for External Speaker Mini-Jack for External Microphone, RJ-11 (Modem), RJ-45 (Ethernet -10/100/1000MB), S-Video port for TV SPDIF Jack, 1394a (4Pin Non Powered) FireWire, 9 Pin D-Sub Connector for RS-232 Serial Port, DC-In
Audio	<ul style="list-style-type: none"> Embedded PCI Bus 16-Bit Audio Input, 20-Bit Audio Output - Hardware Volume Control - AC'97 Version 2.2 Compliant - Two 1.5 Watt Speakers - Built-In Microphone for Voice Recognition
AC Adapter	<ul style="list-style-type: none"> Input: 90 – 265V AC Auto-Sensing, 47 – 63Hz Output: 19Volts, 4.74 Amps, 90 Watts
Battery	<ul style="list-style-type: none"> Standard: 6 Cell 4400mAh Li-Ion 3S2P 11.1V 48.84WH (Approx. Run time of 3 Hours) Charging Time 3Hrs off / 5–6 on Optional: 9 Cell 6600mAh Li-Ion 3S3P 11.1V 73.26WH (Approx. Run time of 4 Hours) Charging Time 4 Hrs off / 7–8 on
O.S. & Applications	<ul style="list-style-type: none"> Standard: Windows XP Professional with Service Pack 2C Optional: Windows Vista Premium, Business or Ultimate Optional Microsoft Office Basic, Student, Small Business or Professional Productivity Software
Dimensions/Weight	<ul style="list-style-type: none"> 12.99 "(W) X 10.83" (D) X 1.57" (H) 6.6Lbs 2.9Kg with 6 Cell Battery or 6.82Lbs 3.1Kg with 9 Cell Battery 370mm (W) X 276mm (D) X 37–40mm (H)
Available Accessories (Partial List)	<ul style="list-style-type: none"> Transflective Sunlight Readable LCD, External USB Touch Screen, CPU, Hard Drive & Memory Upgrades Spare Main 6 Cell Battery, Extended 9 Cell Battery, Battery Charger, Spare A/C Adapter, USB GPS USB Rugged GPRS-Asia & Europe, USB Port Replicator, Universal Dc & AC All-in-One Car Adapter
Environmental Specifications	
Temperature	<ul style="list-style-type: none"> Operating: 5°C to 35°C ; Storage Temperature: -20°C to 60°C
Humidity/Water	<ul style="list-style-type: none"> 10% to 90% RH, Non-condensing, 100c.c. water drop on all C cover area in 2-5 Seconds with system on with no effect
Vibration	<ul style="list-style-type: none"> MIL-STD-810F, Method 514.4, Procedure I, Category 10, Fig 16 & 17 / ASTM 4169 Truck Transport, 11.5.2 Random Test, Assurance Level II
Drop	<ul style="list-style-type: none"> Meet 2.5 feet 26 Drops of 30 inches to Plywood over Concrete with Unit Off and Display Closed. 5 Units to MIL-STD-810F, Method 516.4, Procedure IV, Height Modified.
Enclosure / Case	<ul style="list-style-type: none"> Magnesium Alloy Top & Bottom Case – 20 Times Stronger than Plastic, offering Higher Survival after drops and bumps. Added Protection to Critical Components, (I.E. CPU, RAM, HDD, and ODD) Rubber Protection Surrounding LCD & HDD Area (Added Protection Against Vibration)
EMI / Safety	<ul style="list-style-type: none"> US/ Canada: FCC, CUL European Union (EU): CE, CB ROHS Compliant
Security	<ul style="list-style-type: none"> Kensington Lock, Administrator Password, Boot Password, TPM 1.2, Encrypted Hard Drive