

THE HOME OF HUMAN
INTERFACE COMPUTING



eo TufTab a7230XD

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EO TUFTAB A7230XD DETAILS

Hardware Specifications

Processor

Intel® Atom™ Z530P	1.60 GHz, 32KB/24KB L1 cache, on-die 512-KB 8-way L2 cache, 133 MHz Source-Synchronous FSB
	Intel's 45nm Hi-K metal gate silicon technology (2.2W max TDP)
	Support for IA 32-bit architecture
	Intel® Hyper Threading Technology (2 Threads)
	Intel® Virtualization Technology (Intel® VT)
	Advanced power management features including Intel Enhanced SpeedStep® Technology
	Intel® Streaming SIMD Extensions-2 and -3 (Intel® SSE2 and Intel® SSE3) support and Supplemental Streaming SIMD Extension 3 (SSSE3) support
	Supports C0/C1(e)/C2(e)/C4(e) power states
	Supports new C6 power state (Deep Power Down Technology)
	Execute Disable Bit support for enhanced security

Chipset

Intel® System Controller Hub US15WPx
Integrated single chip graphics, memory and I/O controller
Integrated DDR2 memory controller with 64-bit wide interface
Low power thermal design consumes less than 2.3W
Contains three Universal Host Controller Interface (UHCI) USB 1.1 controllers and an Enhanced Host Controller Interface (EHCI) USB 2.0 controller
Two PCI Express root ports supporting the PCI Express Base Specification, Revision 1.0a
Ultra DMA: Synchronous DMA protocol that redefines signals on the PATA cable to allow both host and target throttling of data and transfer rates up to 100 MB/s
Contains three SDIO/MMC expansion ports used to communicate with a variety of internal or external SDIO and MMC devices. Each port supports SDIO Revision 1.1 and MMC Revision 4.0 and is backward-compatible with previous interface specifications
Provides integrated 2D and 3D graphics and HD video decoding via the Intel® Graphics Media Accelerator 500

Power Management	ACPI 1.0b and 2.0 compliant
	ACPI S0, S3, S4, S5
	CPU states C0, C1, C2, C3, C4, C6 states
	PCI Express Link states: L0, L0s, L1, L2, L3
	Rapid Power Management
Memory	1x SODIMM DDR2 (Unbuffered, 64-bits/channel) slot with a standard configuration of 1.0 GB
	Supports Single 64-bit Channel, 533/400 MHz DDR2 SDRAM
Batteries	2x Modular battery bays with 2x Removable, Hot Swappable batteries
	Gas gauge IC Bench Mark BQ2084
	2er (2S1P) Lithium-Ion Polymer rechargeable batteries
	Typical voltage : 7.4V
	Typical capacity: 2580mAh each
	Typical power rating: 19.09Watt/hr
	Charge Voltage: 8.4V
	Max. Charge Current: 1A
	Max. Discharge Current: 1.5A
	Operating Temperature: Charge: +10°C ~ +45°C / Discharge: -20°C ~ +60°C
	Charge time when system idle is approximately 3 hours per battery
	Paired with spare batteries and the optional docking cradle allows for unlimited, continuous use with no downtime for recharging
	Over Charge Protection, Over Discharge Protection, Over Current and Output Short Protection, Over Thermal Protection
Hard Drive	1.8" 8.5 mm/5 mm height, Ultra DMA PATA I/F 100 MB/s
	Standard configuration with 80 GB @ 4,200 rpm
	Automatic retry/error correction for high data integrity
	G-sensor auto-parks drive heads in case of freefall
Video	Intel® GMA 950 PCI Express, 250 MHz Core Render Clock at 1.05V core
	Up to 256 MB shared video RAM
	DirectX 9.1 Compatible, Intel® Dual Frequency Graphics Technology, Intel® Dynamic Video Memory Technology 3.0
	Intel® Smart 2D Display Technology
	High Performance MPEG-2/MPEG-4/H.264/VC-1/WMV-9 HD Video Decoding
	VLD/iDCT Hardware Acceleration
Windows® Aero (Glass) Technology Capable	

Uses the 2.412- to 2.497-GHz ISM frequency band defined by the IEEE 802.11b/g specifications

Provides 128- and 64-bit WEP encryption, hardware AES (support for key sizes of 128 bits, 192 bits, and 256 bits)

Hardware capability to support Cisco* Compatible Extensions v1/2/3/4

Supports IEEE 802.11 Power Save Protocol (PSP)

Supports Basic Service Set (BSS) (AP) and Independent Basic Service Set (IBSS) (peer-to-peer) modes (in legacy 802.11b/g only)

Supports Intel® Wireless Coexistence System (WCS) Phase II for Bluetooth® devices

Supports WiFi-WiMAX coordination

Wake on WLAN (WoWLAN) support

Bluetooth® Wireless Billionton Bluetooth® 2.1+EDR built-in USB module with power via software

GPS Module Weison ZYM-G5020 built-in USB module

50-channel u-blox technology, 32-channel acquisition engine with more than one million effective correlators

1 second Time To First Fix for Hot Aided Starts

Best-in-class acquisition and tracking sensitivity can simultaneously track 16 satellites while searching for new ones

Accelerated start-up at weak signals with KickStart feature

Supports AssistNow Online and AssistNow Offline A-GPS services; OMA SUPL compliant

GPS (L1 freq., C/A code)

4 Hz position update rate, Velocity Accuracy of 0.1m/s, Heading Accuracy of 0.5°

RoHS compliant and green

Barcode Scanner Intermec EA15 high-performance, decoded 2D imager

Module (optional) Omnidirectional barcode reading

Scan rate of up to 200 scans per second in linear emulation mode or 56 scans per second in omnidirectional mode

Low power 3.3V operation

TTL RS-232 interface

CMOS technology for optimal image sensitivity and dynamic range

Fully compatible with Intermec's family of decoded engines

	Screen rotates 360°
	1024 x 600 Landscape, 600 x 1024 Portrait
	Dual Display Support - External Display up to UXGA (1600x1200) with CRT Hot Plug support (when paired with optional docking cradle)
Display	CPT CLAA070NC0CCW 7-inch TFT LCD with LED backlight
	Optimal viewing angles of up to 140° H, 110° V
	WACOM® Dual Mode Digitizer/Touch Screen with controller
	Digitizer supports up to 256 levels of pressure
	1024 x 600 resolution
	Sunlight Readable Display standard
	Built-in ambient light sensor adjusts LCD brightness for improved battery life
	Supports Stealth Mode
Audio	Intel® High Definition Audio Interface
	Realtek ALC262VD2 HD Audio Codec
	100dB Signal-to-Noise Ratio for DAC output
	90dB Signal-to-Noise Ratio (A-weighting) for ADC input
	Meets premium performance for Windows Logo Program 3.10
	2+2 channel 16/20/24-bit / 44.1KHz/48KHz/96KHz/192KHz sampling rate output (DAC)
	2+2+2 or 4 channel 16/20/24-bit / 44.1KHz/48KHz/96KHz sampling rate input (ADC)
	Built-in 1.5W Speaker and Digital Microphone Array
	3.5 mm Headphone & Microphone Plug 'n Play Jacks
WiFi Wireless	Intel® WiFi Link 5100 PCIe Half Mini Card with Power ON/OFF Switch
	MIMO (Multiple Input, Multiple Output) support 802.11n with 1x2 MIMO
	Dual-Band/Quad-Mode support (IEEE 802.11a/b/g/n), compatible with IEEE 802.11d /e (Quality of Service [QoS]), 802.11h, and European Telecommunication Standards Institute [ETSI] specifications), and IEEE 802.11i (pre-authentication)
	Reduced power consumption in idle associated (25mW)
	EIT v4.0 support
	Automatic switching between the two bands (2.4 GHz and 5.0 GHz)
	Uses the 5.170 to 5.825-GHz Industrial, Scientific, and Medical (ISM) frequency band as defined by the IEEE 802.11a specification

	EA15 Standard Imager RFID Reader Module (optional)
	Microprogram R-07050S1S8 Reader
	ISO-14443 A & ISO 14443B & ISO15693 protocol standard
	Full Mifare® functionality
	Read & write functionality
	High-speed transactions (9600 bps ~ 115200 bps)
	Encrypted data transfer
	25mW output power
Integrated Webcam	2.0 Mpixel CMOS Still/Video with auto focus (USB interface)
TPM Security	Infineon Single-Chip SLB 9635 TT 1.2 Trusted Platform Module (TPM)
	Security architecture based on Infineon security controller family
	Hardware hash accelerator for SHA-1 algorithm
	Trusted Group Computing (TCG) v1.1B / v1.2 configurable mode of operations
	Advanced Crypto Engine (ACE) for asymmetric key operations (up to 2048-bit key length)
	Power saving sleep mode
Expansion Ports	PCMCIA 2.1 Compliant, Supports one (1) Type II 32-bit PC Card Bus Architecture
	1x 4-in-1 Media Card Reader (MS/MS Pro/SD/MMC)
	I/O Ports
	2x USB 2.0
	1x DC-In
	10/100 Ethernet (RJ45)
	1x 3.5mm Audio Out, 1x 3.5mm Audio In
	1x Cradle Connector (Optional Docking Cradle adds 4x USB 2.0 Ports, 1x RJ-45 jack for 10/100 Mbps Ethernet LAN, 1x AC-in connector for power cord, 2x battery charging slots, 1x RS-232 COM Port (9 pin DSub), 1x VGA Out)

Physical Characteristics

Weight	1.2 kg (2.65 lbs.) with both battery packs installed
Measurements	225 mm x 145 mm x 39.5 mm (8.86 in x 5.71 in x 1.56 in) not including rubber bumpers

Color	Black
LED Indicators	<p>Power (ON: green, Standby: blinking)</p> <p>Battery 1 (Charging: orange, Low (< 7%): orange blinking, Fully charged with DC connected: green)</p> <p>Battery 2 (Charging: orange, Low (< 7%): orange blinking, Fully charged with DC connected: green)</p> <p>Hard Drive (Activity: green blinking)</p> <p>Wireless Networking / Bluetooth (Activity: blue blinking for WLAN, Bluetooth or 3G)</p>
Function Buttons	<p>System Power</p> <p>SAS (Ctrl+Alt+Del)</p> <p>User Programmable</p> <p>User Programmable</p>
AC Adapter	<p>Input voltage (nominal): 100 ~ 240 Vac</p> <p>Input voltage (maximum): 90 ~ 265 Vac</p> <p>Input Frequency: 47 ~ 63Hz</p> <p>Input current: 1.7A maximum at 90 Vac</p> <p>Output voltage: 20.0V ~ 21.4V DC</p> <p>Output current: 3.25A maximum</p> <p>Output Power: 65W</p> <p>SCP: Short Circuit Protection plus Auto-Recovery Function</p> <p>OVP: Over-Voltage Protection, Latch Mode, up to 27.0Vdc maximum</p> <p>OCP: Over-Current Protection, Auto-Recovery, up to 5.5A maximum</p> <p>OTP: Over-Temperature Protection to prevent catastrophic failure from overheating.</p>
Operating Environment	<p>Temperature: -20°C ~ +60°C (-4°F ~ +140°F)</p> <p>Humidity: 5% ~ 95%</p>
Storage Environment	<p>Temperature: -55°C ~ +75°C</p> <p>(-67°F ~ +167°F)</p>

Drop Specification	MIL-STD 810F and IP54 compliant 26 drops of 48 inches to plywood over concrete with unit off 2 units to pass
Water Sealing	MIL-STD 810F and IP54 compliant Rain chamber to operate at no less than 40 PSIG and no less than 4 in/hr. 10 min per axis, 6 axes Unit is non-operating
Dust Proof	Meet IEC 60529 IP-5X standard Protected against dust, limited ingress (no harmful deposit)
Vibration	Meet Mil Std 810F-514.5, Procedure I Cat. 24, Fig. 514.5C-17 & 514.5C-18 Unit is non-operating ASTM 4169-99 Truck Assurance Level II, Schedule E Unit is operating
EMI/Safety Regulations	CSA, FCC, CE

Included in the Box

Accessories:

- 2x Lithium-Polymer Batteries
- AC Adapter with Power Cord Set
- Quick Start Guide
- Stylus Pen
- PDF User's Manual on the desktop
- System Recovery DVD or On-HDD Recovery Image
- Warranty:
 - 1 Year Limited Warranty, Parts & Labor (Standard)
 - 2 Year and 3 Year Extended Warranty (Optional)
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