GETAC A790Rugged Notebook



Sales Kit

Revision: R04

Issue date: 2006/10/04

Brief Introduction

The GETAC A790 is the newest ultra-rugged model of the GETAC Rugged Notebook family, designed and built to survive the harshest environments. Reliable and efficient operation is provided by a high performance 12.1" or 14.1" TFT sunlight-readable LCD, a shock-mounted hard drive, and a wide range of ambient temperature features. This extremely rugged model not only meets MIL-STD-810F and IP54 but also satisfies critical EMI requirements. The A790 possesses extreme versatility and expandability, offering multi-bays for maximum flexibility and customized applications. Users have the luxury of expanding the storage capacity by employing the bays with two additional removable hard drives, and adding two auxiliary batteries for extended use. Complementing this rugged, multifunctional notebook is a state-of-the-art security package that includes a TPM 1.2 chip, a fingerprint biometric device, and a smart card reader. With multiple authentication capabilities, this reliable A790 will reject any unauthorized access and safely protect confidential information.

Selling Points

Multi-Bays

The obvious choice for a versatile, fully ruggedized laptop is the GETAC A790. Its unique multi-bay features enhance the user's expansion capabilities, which include a Media bay, an X - bay, and an expansion unit. The GETAC A790 offers abounding options, such as DVD combo and DVD Dual. Moreover, it possesses rich interfaces, for example, two RS232/422 ports, two to four PCMCIA slots, two PCI slots, two PCI-Express slots, a smart card reader and a fixed floppy drive. The storage capacity may be increased by adding one more hard drive and the battery life may be extended with two auxiliary batteries.



Ultra Rugged

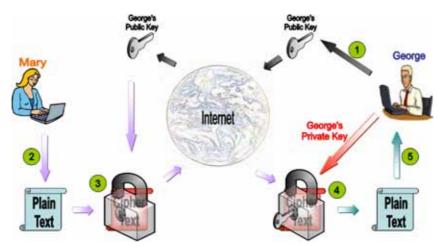
The GETAC A790 meets MIL-STD-810F and IP54 requirements. It is the most robust ultra-rugged portable notebook in the market. The fully magnesium alloy case and tough rubber corner bumpers allow the A790 to survive 3-foot drops on hardwood floors. Designed with high-end rugged technology, the A790 is able to withstand severe vibration and shock conditions which may cause electronic circuit damage and loose connections. Additionally, it is equipped with an "active protection function" that protects the hard drive from damages due to sudden drops. The fully sealed I/O caps and doors prevent solid particles and moisture from entering the unit and allows for continuous stable operation under extreme ambient temperature (-20 to 55) conditions.

Wireless Communication

The GETAC A790 is an ultimate mobile wireless device in itself, offering various choices for different operating scenarios. For example, its short-range Bluetooth and IrDA can transmit data from the A790 to another device. A built-in 802.11a/b/g Wi-Fi is used to connect to Local Area Network, making it convenient for working away from the office. The Wide Area Network wireless options of the A790 are third generation mobile network devices, which include UMTS/HSDPA of Global System for Mobile Communications and CDMA2000 1x EV-DO for CDMA carriers as options. GPS is another available alternative. This machine is, without a doubt, the top preference for mobile solutions.

Trust Platform Module (TPM)

The GETAC A790 is not only MIL-STD tough structurally, it also possesses amazing defensive capabilities. It is an embedded hardware-based security notebook with a Trust Platform Module (TPM). The basic core of TPM is Root-of-Trust, which is a chain of trust procedures. From pre-boot to OS load, this micro-chip monitors every step to guard against unauthorized tampering from physical theft or software attack. TPM provides numerous powerful functionalities for storage security, authority justification, and integrity measurement.



http://www.eltm.ru

Biometric Fingerprint Reader

The GETAC A790 may be equipped with an optional biometric authentication device that ensures a secure log-in process or access to sensitive information. Merely swiping your unique fingerprint on the scanner when a password or username is required eliminates the need to remember passwords. The GETAC A790 is a rugged notebook that possesses the highest level of security protection in the world. Employing TPM with fingerprint recognition provide two walls of protection for a much higher level of authentication security.



Sunlight-Readable Panel

The A790 provides cutting-edge technology with its 12.1" or 14.1" high resolution Sunlight-Readable LCD, which is designed to operate under bright ambient lighting conditions. GETAC's Sunlight-Readable solution has made a breakthrough in intensifying the LCD's visibility, making it more readable and usable under extremely bright environments.

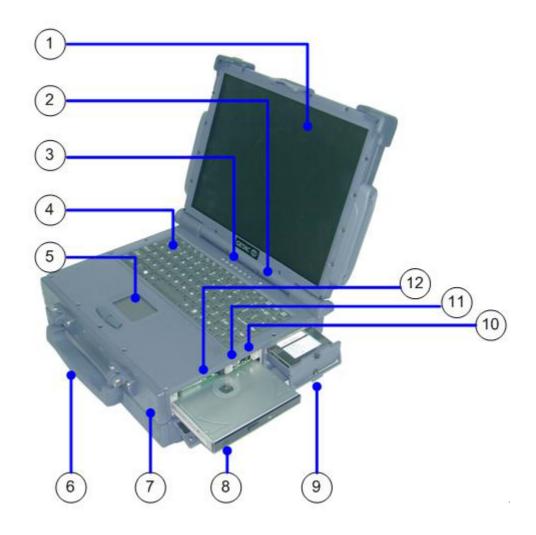
Vehicle Dock

GETAC developed a robust vehicle dock for the A790. The dock offers very secure, stable and reliable features for the A790 when installed in various vehicles. The dock's isolator counteracts against severe vibration and shock caused by erratic road conditions, keeping the A790 firmly seated on the vehicle dock even in violent crashes or emergency braking situations. The dock is equipped with a full range voltage (12–32V) power supply, making it suitable for installation in a wide range of mobile applications. I/O replication is also available.



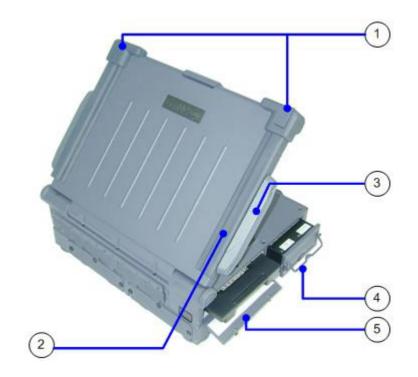
Product Photos

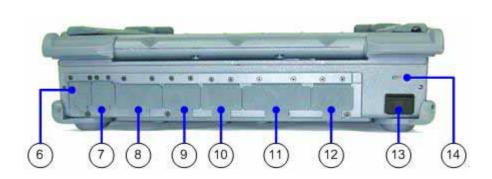
■ Front/ Right Side View



1	LCD	5	Touch pad	9	Shock mount Hard Drive
2	Power button	6	Handle	10	1394B
3	LED indicators	7	Speakers	11	Line out & Microphone
4	Keyboard	8	Media Bay	12	PCMCIA Slots

■ Back/ Left Side View





1	WLAN Antenna	6	DC in	11	Parallel port
2	Bluetooth Antenna	7	USB 2.0 x 2	12	Serial Port
3	3G Communication Antenna	8	Docking port	13	IrDA
4	Primary Battery	9	RJ-45 / RJ-11	14	Kensington Lock
5	X - Bay	10	External VGA		

Getac A790 Rugged Notebook



System Specifications

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Model		A790		Remark	
Intel® Core™ Duo LV Processor		1.66 GHz		Processor number : L 2400	
Processor	FSB	667 MHz			
	2 nd Level Cache	2M			
Chinaat	Northbridge	Intel® 945GM			
Chipset	Southbridge	ICH7-M			
Memory	DDR2 (SO-DIMM x 2)	512MB		Max.: 2GB	
VGA Controller		Intel® GMA 950 graphics controller		128MB shared RAM	
Dianlay	TET LOD	12.1" or 14.1" XGA (1024 x 768)		Option: Sunlight Readable	
Display	/ TFT LCD			Option: Touch screen	
C1	IDE LIDD	80GB or above		Option: SATA HDD 80GB or above	
Storage	IDE HDD			Factory Option: Low temperature –20	
Swappable Med	dia Bay	Floppy Disk			
Keyboard		Water proof keyboa	rd	Option: Backlight water proof keyboard	
Touch pad		Capacitance Type		Option: Glove Used Touch Pad	
PCMCIA		Type II x 2 or Type III x 1			
Adia		Azalia 32 bits audio digital controller			
Audio		Speaker (2W x 2			
		Serial Port x 1	RJ-11 x '	1	
		USB 2.0 x 2	Microphone x	1	
1/O D t		External VGA x 1	Line out x	1	
I/O Port		1394B x 1	IrDA x '	1	
		Parallel port x 1	Docking port x	1	
		RJ-45 x 1	DC in x	1	
		10/100/1000 base-T Ethernet			
Communication	1	56K ITU V.92 modem			
		Intel® PRO/Wireless 3945 a/b/g		Factory Option	
		TPM 1.2		Factory Option	
Security		Fingerprint		Factory Option	
		Kensington lock			
D 6 1	AC Adaptor	90 Watts, Input 100-240v, 50/60Hz AC			
Power Supply	Primary Battery	9600 mAH Li-lon Smart battery		Option: Low temperature –20	
Operating Syste	em	Windows XP、One button recovery			
Dharaina i	12.1" Dimension / Weight	13 x 11.1 x 3.8 (in)	12.6 (lbs)	::LUDD/EDD/D :	
Physical	14.1" Dimension / Weight	13 x 10.1 x 3.8 (in) 13 (lbs)		with HDD/FDD/Primary Battery	

Accessory Options					
	External USB Floppy				
	3pcs Battery Charger				
Fortennal Device Continu	Port Replicator				
External Device Option	ISA Exoansion Unit (x 2 Slots)				
	PCI Expansion Unit (x 2 Slots)				
	PCI-Express Expasion Unit (x 2 Slots)				
	DVD Combo				
Swappable Media Bay Option	DVD Dual				
	2 nd HDD (USB to IDE) 80/120 GB				
	4200mAH Media Bay Battery Pack	Ontion: Low Tomporature, 20			
Power Supply Option	4200mAH X-Bay Battery Pack	Option: Low Temperature –20			
	Vehicle Adapter (90Watts, 12 - 32 V)				
	RS232/422				
	Ultra320 SCSI				
	2 nd PCMCIA (Type II x 2 or Type III x 1)				
	2 nd FDD				
X Bay Option	Smart Card Reader				
	Bluetooth (v2.0 class 2)				
	GPS (with mouse type antenna)				
	CDMA/CDMA2000 1x/CDMA2000 EV-DO				
	GSM/GPRS/EDGE/UMTS/WCDMA/HSDPA				
	Vehicle Dock				
Mounting Option	Vehicle Mount				
Mounting Option	Shock Mount				
	Ultra Shock Mount				
Carrying Bag Option	g Option Carrying Bag				

A-series Vehicle Dock Specifications				
	DC Input	x 1		
	BNC Video Capture	x 1		
WO	USB 2.0	x 2		
I/O port	Parallel EPP/ECP Port	x 1		
	Serial Port	x 2		
	VGA Monitor	x 1		
Temperature	Operating:	-20° to 55°C		
remperature	Non-Operating:	-40° to 70°C		
Humidity	5% ~ 95% RH, non-condensing			
	Operating:	15,000ft		
Altitude	Non-Operating:	40,000ft		
	Altitude Change Rate:	2,000 ft/min		
Shock	Operating:	15g, 11ms, half sine wave		
SHOCK	Non-Operating:	50g, 11ms, half sine wave		
Vibration	Operating:	10~55Hz/0.075, 55~500Hz/1.0g		
Vibration	Non-Operating:	10~55Hz/0.150, 55~500Hz/2.0g		
Crash Test	64 km/hr (~40 mph) or H	64 km/hr (~40 mph) or Higher Vehicle Speed		
Dimension	13.2 x 12.3 x 8.6 (in)	13.2 x 12.3 x 8.6 (in)		
Weight	24.5 (lbs)			
Accessories	12-32V 90W Vehicle Ad	apter		
Accessories	Lock Key x 2	Lock Key x 2		
	Auto Power on with Ignit	Auto Power on with Ignition		
Features	90W Car Adapter Capat	90W Car Adapter Capable of Charging Battery		
	Power on Indicators			

Environmental Test Specifications					
Item	Test Criteria				
	According to IEC 68-2-1,2,14 / MIL-STD-810F, Method 501.4, 502.4				
Temperature	Operating:	0° to 55°C			
remperature		-20° to 55°C (low temperature option)			
	Non-operating:	-40° to 70°C			
Humidity	According to IEC 68-2-30 / MIL-STD-810F, Method 507				
Trainialty	45% to 95% RH, non-condensing				
	According to IEC 68-2-13/ MIL-STD-810F, Method 500.4				
Altitude	Operating:	15,000 ft			
Aititude	Non-operating:	40,000 ft			
	Altitude change rate:	2,000 ft/min			
Shock	According to IEC 68-2-27/ MIL-STD-810F, Method 516.5				
Drop	According to IEC 68-2-32 / MIL-STD-810F, Method 516.5				
Vibration	According to IEC 68-2-6 / MIL-STD-810F, Method 514.5				
ESD	According to IEC1000-4-2				
Enclosure	According to IEC 529, NEMA, MIL-STD-810F, Method 506.4, 510.4				
Eliciosure	IP 54 compliance				
Regulation	FCC,UL,CUL,DGT,CE,CB,CCC,WHQL,BSMI,e-Mark,ATEX				
Others	MIL-STD-461E(option)				