

Fully Rugged Notebook with Mobile Intel® HM65 Platform



- Features**
- Latest high performance Intel® HM65 chipset
 - The 2nd generation Intel® Core™ i7 embedded processor, fanless design
 - Supports USB 3.0, SATA6Gbps, eSATAand HDMI
 - 2 x 10/100/1000Mbps LAN, up to 4 x RS-232/422/485
 - Optional fingerprint identification, TPM, data encryption and drive self-destruction
 - Flexible Media Bay Feature, supports up to 5 kinds of function modules
 - Supports Contact Smart Card Reader, PCMCIA Type II, Express Card
 - 13.3" TFT LCD with sunlight readable function and tempered glass
 - Magnesium alloy shell with reinforced rubber edge covering
 - MIL-STD-461F, MIL-STD-810G (IP65) certified
 - Ruggedized power supply input connector

SPECIFICATIONS

Processor	Mobile Platform	Onboard Intel® Core™ i7-2610UE 32nm embedded processor, 1.5GHz, Maximum 2.4GHz with Intel® Turbo Boost Technology 2.0
	L2 Cache	4MB smart cache
Chipset	Main Chipset	Mobile Intel® HM65 Express chipset
	Graphics Controller	Integrated high performance 3D graphics controller within Core™ i7-2610UE processor, 350~850MHz core speed
Memory	Shared memory, Intel® Dynamic Video Memory Technology	
	Onboard Memory	2GB DDR3 1333 memory
Memory Expansion Slot	Memory Expansion Slot	1 x 204-pin SO-DIMM socket, up to 8GB DDR3 1066/1333 memory
	Max. Memory	10GB
Display	LCD Size	13.3" TFT LCD
	Resolution	WXGA, 1280 x 800
	Tempered Glass	Standard
	Sunlight Readable	Standard
	Touch Screen	Optional
	External VGA	1 x VGA(15-pin D-sub)
Storage	HDMI	1 x HDMI
	Primary Storage	1 x 250GB removable shock-mounted HDD, optional 250/320/500 GB
Secondary Storage	Optional wide temperature SATASSD (shock-mounted, -40℃ ~ 85℃)	
	Optional secondary storage pack	
Please contact rontronic industrial for capacity of storage devices with different capacities.		
Multimedia Bay	Optical Driver(Standard)	Removable Ultra-Slim DVD-ROM or DVD-R/W
	Secondary Storage Drive	Optional removable SATAHDD or SSD
	Secondary Battery	Optional removable hot-swap secondary battery pack
	3 rd and 4 th Serial Port	Optional removable serial port box(with 2 x RS-232/422/485)
	PCIe x1 bus	Reserved expansion slot, supports customizable small dimension expansion module

Note: 1. Above function modules are optional, and the multimedia bay can only accept one of them simultaneously.
2. The communication mode of serial ports can be set up by jumper in the factory.
3. Default RS-422 for these two serial ports. Please assign communication modes if you need the others mode in initial stage.

Keyboard	Silicone Keyboard	Silicone keyboard with backlight, waterproof , dustproof
	Plastic Keyboard	Optional plastic keyboard,waterproof
Touch-Pad	Capacitive	Standard (Default)
	Resistive	Optional resistive touch-pad, suitable for humid environments
I/O Interface	Serial Port	2 x RS-232 (9-pin D-sub)
	USB3.0	2 x USB3.0(SuperSpeed USB), compatible with USB2.0 device
	USB2.0	1 x USB2.0
	IEEE 1394	1 x IEEE1394a interface(Firewire)
	eSATA	1 x eSATA3Gb/s interface
	Audio-out	1 x Audio-out (Mini-jack)
Communication Interface	Mic-in	1 x Mic-in (Mini-jack)
	Internal Speaker	Internal Stereo speakers
	Ethernet	2 x 10/100/1000Mbps LAN port (RJ-45)
	Internal Modem	Optional 56Kbps ITU V92m modem(RJ-11)
	WiFi	Optional Intel® Wireless WiFi Link 802.11a/b/g/draft n
	3G	Optional 3G module, with 1 x SIM card socket
Expansion interface	Bluetooth	Optional Bluetooth™ V2.0 + EDR, compatible with Bluetooth V1.2
	GPS	Optional GPS module with antenna
Security Features	Note: The WiFi and 3G functions are optional, can only accept one of them simultaneously.	
	Smart Card Reader	1 x Contact Smart Card Reader
	PCMCIA	1 x PCMCIA Type II, supports 16-bit PC card and 32-bit Cardbus
	Express Card	1 x Express Card/54mm
	Card Reader	N/A
	Docking	Optional Docking Connector
Power Supply	Note: The RJ-11, 1394, eSATA, USB2.0 will be occupies by docking connector	
	Fingerprint Identification	Optional fingerprint reader
	Storage Drive Security	Optional data encryption and storage drive self-destruction
	TPM 1.2	Optional
	Kensington Lock Hole	Yes
	Primary Battery Pack	Optional 6600mAh or 7800mAh battery pack, removable, hot-swap capability
Expansion interface	2nd Battery Pack	Optional 3700mAh 6-cell battery pack, removable, hot-swap capability
	DC Input Connector	1 x 4-pin ruggedized connector
	AC Adapter	100V~240V 50/60Hz AC input, with ruggedized DC output connector
	Vehicle DC Adapter	Optional 90W vehicle DC adapter with ruggedized output connector, 9V to 32V DC input

Mechanical and Environmental

Physical Characteristics	Material	Full magnesium alloy case
	Dimensions	328mm x 272mm x 46mm (W x D x H)
Rugged Features	Weight	3.6 ~ 3.8kg (Exclude battery, storage drive and DVD R/W)
	EMC,EMI	MIL-STD-461F certified
Working Temperature	Working Temperature	-20℃ ~ 55℃ / -4℉ ~ 131℉, MIL-STD-810G method 501.5 and 502.5 procedure II
		Optional -20℃ ~ 60℃ / -4℉ ~ 140℉, MIL-STD-810G method 501.5 and 502.5 procedure II
	Storage Temperature	-40℃ ~ 70℃ / -40℉ ~ 158℉, MIL-STD-810G method 501.5 and 502.5 procedure I
	Relative Humidity	95%RH, non-condensing, MIL-STD-810G method 507.5 procedure II
	Anti-Vibration	20~2000Hz/7.7g(Non-operating, X,Y, Z axis), MIL-STD-810G method 514.6
		20~2000Hz/1.9g(Operating, X,Y, Z axis) , MIL-STD-810G method 514.6
Note: Greater anti-vibration performance can be provided. Please contact EVOC for more information.	Transit Drop	120cm/48-inch height drops, MIL-STD-810G method 516.6
	Operating Altitude	15,000ft at 2,000ft/min, MIL-STD-810G method 500.5
	Water Resistance	IP65 compliant(Anti water spray, drip rain), MIL-STD-810G method 506.5 procedure III
	Conformal Coating	Optional Anti-Fungus and Anti-Salt Fog compliant

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