

# R13S Rugged Notebook



Intel® Core™2 Duo processor

The Gammatech R13S rugged transformable notebook is ready to get the job done in the harshest mobile environments. The fully rugged case design meets MIL-STD-810F and is rated IP54 for dust and water protection. From indoors to out, in rain or shine, the Gammatech R13S is tough enough to go to work in the most adverse conditions.



Rugged Notebook



Transforms to



Rugged Tablet

Two in One For Ultimate Functionality

**Fully Rugged****R13S**

<b>Tough Features</b>	
Drop Resistance	According to MIL-STD-810F 516.5, Procedure VI, 26 times 91 cm height free drop onto wood on concrete
Shock Resistance	Random Vibration Test (Operating) : According to ASTM 4169-99, Truck Assurance Level II, Schedule E Random Vibration (Not-Operating) : According to MIL STD 810F, Method 514.5, Procedure 1, Category 24, Fig.514.5C-17 Sine vibration(Not-Operating): According to MIL STD 810F, Method 514.5, Procedure 1, Category 24, Fig.514.5C-18
Spill Resistance	According to MIL-STD-810F 506.4, Procedure II, IEC 60529 Edition 2.1 : 2001-02-IPX4 (International Electro Technical Commission Publication)
Dust Resistance	According to MIL-STD-810F 510.4, Procedure I, IEC 60529 Edition 2.1 : IP54 Compliant
<b>System Specifications</b>	
Processor	Intel® Core™ 2 Duo (Merom, Ultra Low Voltage) U7500 Speed at 1.06GHz, TDP 10W
System Memory	• DDR2-667 MHz DRAM • 2 x SO-DIMM (up to 4GB), Dual Channel (*Max. 3GB under Windows XP & Vista 32-bit OS)
Storage	• 2.5" SATA HDD w/S.M.A.R.T. • Shock-mounted Removable HDD • SSD (option) • SATA HDD Heater ( Pass 810F Cold Start Test ) • Built-in Freefall Sensor for Drop Protection (optional)
Optical Drive	Ultra-Slim SATA Super-Multi DVD Burner
Display	13.3" Wide Active Matrix TFT, WXGA 1280 x 800 Convertible Display, Sunlight Readable
Graphics	Intel® GME965 Integrated Graphics
Audio	• HD Audio • Microphone x 2 (array microphone) • Built-in speaker x 2 (Total Max: 4W)
Chipset	Intel® GME965
CRT Display	Up to QXGA 2048 x 1536
I/O Devices	Water-Proof Resistive Touchpad
I/O Ports	• 1 x LAN RJ45 10/100/1000 • 1 x DC -in • 1 x Docking Connector (PoGo Pin) • 1 x VGA / D-sub 15pin for external monitor • 3 x USB 2.0 ports • 1 x SIM Card Connector • 1 x RS -232 • 1 x Audio Jack : Ear Phone-out • 1 x PC Card Slot • 1 x Smart Card Reader • 1 x Audio Jack : MIC-in • 1 x SD Card Reader
Keyboard	86 key LED Back Light keyboard, IP54 Compliant
Wireless/Communications	• Intel® 4965 802.11 a/g/n • WWAN : HSDPA/GPRS/GSM/WCDMA (option) • GPS Receiver Support • PAN: Bluetooth 2.0 + EDR Class 1
Power System	AC/DC adapter : Input: AC 100~240V 50/60Hz, universal Output: 19V DC, 4.74A, 90W 3 pin compact power supply system, MIL-STD 461E Pass
Temperature	High Temp: According to MIL-STD-810F 501.4 Procedures I (Storage) and II (Operation) Low Temp: According to MIL-STD-810F 502.4 Procedures I (Storage) and II, III (Operation) Operating: Standard -4°F to 122°F Non Operating: -4°F to 158°F
Humidity	According to MIL-STD-810F 507.4 Procedures I (Storage) and II (Operation)
Altitude	According to MIL-STD-810F 500.4 Procedures I (Storage) and II (Operation)
Battery	Li-Ion 9 cell 7800mAh (Approx. 8hrs*) Built-in gauge IC, Charging time : 2.5 hrs to 80 %
Security	TPM1.2 (Trusted Platform Module Security Chip) BIOS setup, Power-on, HDD User Password Protection Fingerprint Recognition, Kensington Lock
Operating System	Microsoft Windows® 7 Professional Microsoft Windows® XP Tablet PC Edition Microsoft Windows Vista® Business
Dimensions & Weight	344mm(W) x 253mm(D) x 58mm(H) / 13.54"(W) x 9.96"(D) x 2.84"(H) Weight < 4.1Kg / 9.04lbs
Agency EMI / Safety	EMI: FCC, CE, MIL STD 461E Safety : CB, cUL, UL