



Rugged Features	
Drop	MIL-STD-810G ¹ 4 feet
Shock & Vibration	MIL-STD-810G ²
Temperature (with SSD)	Operating -20°C - 50°C Storage -40°C - 70°C
Humidity (RH)	Operating 20% - 90%
Waterproof Keyboard	●
Waterproof Touchpad & Buttons	●
I/O Dust Covers	●
System	
Platform	Intel® Calpella
Chipset	Intel® HM55
Display	12.1" WXGA
Resistive Touch Screen	●
Sunlight Readable LCD	○
Digitizer	○
DDR III Memory Sockets	2
Graphic Controller	Intel® HM55 Integrated
Hard Disk Drive	2.5" SATA or SSD
Integrated Data Backup SSD	○
1.3Mega-pixel Webcam	●
Operating System	Windows 7 Pro
Dimension & Weight	
Dimensions (mm) WxDxH	328 x 277 x 40.8
Weight	2.5Kg

I/O Interface	
Express Card 34 Slot	●
SD Card Slot	●
USB 2.0	x1
USB 2.0 / e-SATA Combo	x1
Audio - Mic & Speaker	●
RJ11	●
RJ45 Giga LAN	●
VGA Out	●
Quick Interchangeable I/O Module	●
Input Keys	
Portrait / Landscape Display Control	●
LCD Brightness Up/Down	●
Stealth Mode	●
SAS Key	●
OSD Quick Menu	●
Programmable Key	●
Security	
Kensington Lock	●
TPM	●
Computrace Ready	●
Fingerprint Scanner	●
Battery	
Standard	6 Cells / 4hrs
Second Battery	6 Cells / 4hrs

Communication	
Intel Wifi Link 1000 b/g/n	○
Bluetooth (EDR 2.1)	○
Gobi 2000 (WWAN + GPS)	○
Quick Interchangeable I/O Module	
Gobi 2000	WWAN & GPS
RS232	RS232 x1 & USB2.0 x2
Smart Card Reader	Smart Card Reader x1 & USB2.0 x1
Second Webcam	2M Auto-Focus
Vehicle Dock	
RJ45 Giga LAN	x1
RS232	x2
USB2.0	x3
VGA Out	x1
Audio Out	x1
Mic In	x1
SW Speakers	x2
DC In	x1
Office Dock	
RJ45 Giga LAN	x1
USB2.0	x3
VGA Out	x1
Audio Out	x1
Mic In	x1
DC In	x1

● Standard ○ Option

1. MIL-STD 810G Method 516.6 Procedure IV

2. Non Operating: MIL-STD 810G 514.6 Procedure I Cat.24, Fig. 514.6E-1 & 514.6E-2; Operating : ASTM 4169, Truck Transport, 11.5.2 Random Test, Assurance Level II

DURABOOK

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DURABOOK
Prepared for the Unexpected

UI2C



U12C

12.1" Rugged
Convertible Notebook

Durabook® U12C is the lightest and most versatile convertible notebook to pass MIL-STD 810G for Drop, Vibration, and Shock. U12C is designed with innovative features and flexibilities for wide-ranges of applications and work environments. The U12C sets a new standard for versatile rugged computing.

Key Features:

- ▶ Light weight Semi-Rugged Convertible Tablet Notebook
- ▶ Integrated Ergonomic Handle for easy handling
- ▶ Quick Release HDD
- ▶ MIL-STD 810G for Drop, Shock and Vibration
- ▶ Stealth Mode
- ▶ Up to 8 hrs battery life with 2nd battery



Hardware Architecture

- ▶ Intel® Calpella Platform
- ▶ Intel® Arrandale Core i3 or Core i5 CPU
- ▶ Intel® HM55 Chipset
- ▶ DDRIII SDRAM

Ruggedness & Environment

Drop

MIL-STD 810G, Method 516.4, Procedure IV, 4 feet drop.

Vibration

- ▶ Non-Operating : MIL-STD-810G, Method 514.6, Procedure I, Category 24, Fig. 514.6E-1, Fig. 514.6E-2
- ▶ Operating : ASTM 4169, Truck Transport, 11.5.2 Random test, Assurance Level 2

Temperature

- ▶ Operating : -20°C ~ 50°C (with SSD)
- ▶ Storage : -40°C ~ 70°C

Humidity

Operating : 20% ~ 90% RH

Spill Proof

Operating : 100cc water drop on all keyboard and touchpad area in 2-5 seconds.



LCD

A. Convertible LCD

Durabook® U12C is equipped with a convertible swivel LCD screen which enables notebook and tablet mode operations.

B. Resistive Touch Screen

Touch Screen accommodates gloved-finger operations by using Resistive Touch Technology to provide mobile users with flexibility and convenience under any circumstances.

C. Sunlight Readable

Durabook® U12C deploys the most advanced and innovative sunlight readable technology for unparalleled results. Durabook® Sunlight Readable solution incorporates polarized LCD glass, Anti-Reflective technology, as well as enhanced brightness LED backlight to achieve superior Sunlight Readability without over drain battery power.

D. Digitizer

Digitizer is a precision input device that provides the ability to take handwritten notes, make precise sketches or sign e-documents directly onto the screen.



Security

Integrated Fingerprint Scanner

Durabook® U12C fingerprint scanner is an ideal solution for biometrically protecting sensitive information and preventing unauthorized access.

Computrace Ready

U12C includes the Computrace® theft protection agent in BIOS.



TPM 1.2

Trusted Platform Module v1.2 security defends against Hard Drive removal data breach.

Smart Card Reader

U12C offers the unique secured ID verification tool to protect sensitive data and provide different levels of secure access with Smart Card identification.



Communication



Gobi™ 2000 3G and GPS

With the optional Gobi™ 2000 chip, users can stay connected out of the office and within any 3G carrier network. The Gobi™ chip combines 3G, Stand-alone GPS as well as AGPS.



Intel WLAN

The Intel Wifi Link 1000 offers excellent wide area coverage and high speed performance that supports 802.11 B/G/N.

Bluetooth Connectivity

With Bluetooth v2.1 + Enhanced Data Rate, U12C users can connect and sync with various Bluetooth enabled peripheral devices.





HDD

Quick Release HDD

Durabook® U12C is designed with quick release HDD mechanism to allow removal of the Hard Drive Disk in just a few seconds.

Optional Solid State Primary Drive

Optional solid state primary drive is available for greater operating temperature range, faster data read/write, and even higher reliability in rugged conditions.

Optional 2nd SSD for Data Backup

U12C offers an optional 2nd SSD with Durabook® proprietary software that backups the most important data between the primary hard-drive and the 2nd backup SSD.



Modular I/O Port Bays

User changeable modular I/O bay gives U12C the flexibility and versatility to accommodate various devices for wide range of applications.

- ▶ I/O 1 : 2x USB2.0 + 1x RS-232
- ▶ I/O 2 : 1x USB2.0 + 1x Smart Card Reader
- ▶ I/O 3 : Gobi™ 2000 (3G + GPS)
- ▶ I/O 4 : 2nd 2 Mega-pixel Camera Module



Design and Features



A. Spill Proof

U12C is designed with waterproof keyboard and touchpad. Internal circuitry is protected on the keyboard side (C-case) from any liquid spills.

B. I/O Port Covers

Durabook® U12C comes with I/O Port Covers to protect the ports from dust in harsh environments.

C. Smart Battery Protection

Durabook® employs double protection smart battery circuitry to prevent damages caused by current or voltage surges and overheating.

D. Shock Resistant HDD Mounting

Shock resistant mounting structure and compounds insulate the HDD from vibration and shock while protecting your mission critical data.

E. Integrated Stylus

U12C comes with integrated stylus for accurate controlled input to the LCD touch panel and digitizer.

F. OSD Quick Menu

Proprietary on-screen quick menu software allows easy and convenient control of the wireless radio, GPS, 3G, and monitor battery conditions.

G. Programmable Button

Programmable button allows the user to customize function or program for quick application access.

H. Stealth Mode

The one-click stealth mode operation disables all emitting light and sounds. This feature is designed for the unique applications of covert operations like stakeouts.

I. Integrated Ergonomic Handle

U12C is designed with Integrated Ergonomic handle for ease of use and convenience for carrying the system around on-the-go.

J. Shock Resistant LCD Mounting

Special designed LCD mounting absorbs shock and sudden impact from rough environments and usages.

K. Magnesium Alloy Chassis

U12C is built with magnesium alloy case that is 20-times stronger than ABS plastic to assure superior resistant from exterior impact like bumps, drops and shocks.



Accessories

Vehicle Dock

IO Ports : 3x USB, 2x Serial Port, 1x VGA, 1x DC-in, 2x Audio IO

Office Dock

IO Ports : 3x USB, 1x RJ-45, 1x VGA, 1x DC-in, 2x Audio IO

Second Battery

Optional 2nd Battery pack provides additional 4 hours of battery life to the U12C.
This 2nd battery can independently recharge through DC-power plug.

Car Adapter

DC-in : 12V, 65W; DC-out: 19V

I/O Module

- ▶ I/O 1 : 2x USB2.0 + 1x RS-232
- ▶ I/O 2 : 1x USB2.0 + 1x Smart Card Reader
- ▶ I/O 3 : Gobi™ 2000 (3G + GPS)
- ▶ I/O 4 : Second 2 Mega-pixel Camera Module



Applied Applications

Government
Field Service
Utility
Emergency
Police
Transportation
Logistic/Warehousing
Healthcare

