



**Take your computer  
where you work**

**NO MATTER HOW RUGGED!**



# Yuma matches your “outdoors”

**Outdoor rugged**

**Ultra mobile**

**Powerful**

- **Protect your data**
- **Stay out in the field longer, and get more done**
- **Save time and enjoy the convenience of having one computer in the office and the field**



# Outdoor Rugged

- **SURVIVE!**
  - Impact
  - Vibration
  - Extreme temperatures
  - Dust storms
  - Rain, snow, hail
  - Submersion in water
  - High humidity
  - **Altitudes to 40,000 feet**



Photo by Drew Wood, skipper of the mini sail boat “WAFI” (inset), using Yuma to navigate from Newport RI to Bermuda in the Bermuda 1-2 solo sailing race, June 14<sup>th</sup>, 2009

# Ultra Mobile

- **Easy to carry in field**
  - Ergonomic
  - Size of hardbound book
  - Light weight: 2.6 lbs with standard battery
  - Handstrap included
- **Easy to take with you**
  - Vehicle dock
  - Deluxe carry case
  - Office dock





# Powerful as a desktop PC

- **Uses standard operating system:**
  - Windows Vista Business
- **Reduce overhead and gain bandwidth**
  - Use one operating system for office and field
  - Supports all Vista-compatible programs
  - Work in parallel
- **Utilize existing applications**
- **Focus on value-added tasks**
- **See more data on the 7" display; ideal for applications such as:**
  - Mapping and GIS
  - Situational Awareness
  - Video conferencing
- **Powerful processing and a large screen enable robust and productive field applications.**



# Power to Process & Store

## ■ Data Processing

- Go beyond gathering info: process it, use it, interact with it.
- 1.6 GHz Atom Z530 processor
  - Powerful, low power consuming CPU
  - Intel's smallest processor built with the world's smallest transistors
  - Entirely new design

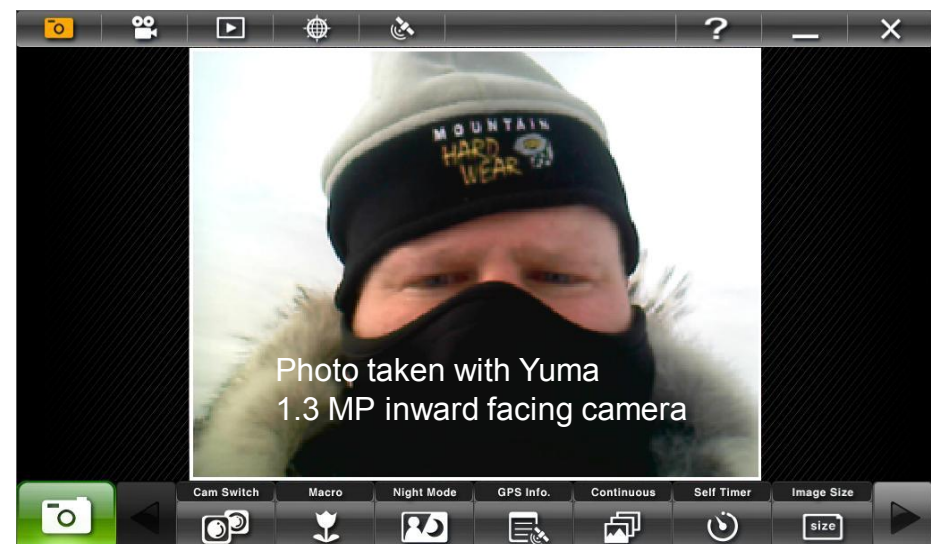
## ■ Storage

- More than a PDA-type handheld device
  - Carry and use significant video and map files
  - Add USB flash drives
- Multimedia data
  - Audio (WMA): 1 minute, 800kb (uncompressed)
  - Video (WMV): 1 minute 1.3MP camera; 4MB



# Multimedia Data Capture

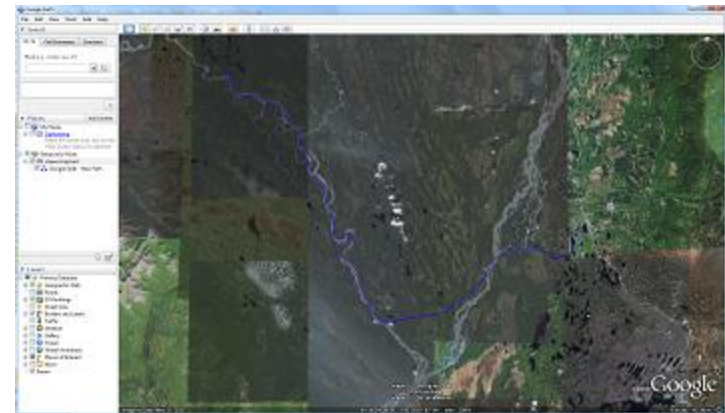
- Use photos for documentation
- Dual cameras capture images and video
- Powerful camera software to review images & adjust camera settings





# Integrated GPS

- **Integrated SiRFstarIII GPS**      **PHOTO: GIS map**
- **Software to see and adjust your GPS settings**
- **Compatible with trip tracking**
  - **MMO (Memory map)**
  - **KML (Google Earth)**





# Survivability

Passes rigorous military 810F standards (MIL-STD-810F)

- **Dust**
  - No ingress
  - Impervious to dust
  - Passes IP67
- **Water**
  - Designed to safely dunk in water
  - Few devices can achieve this standard
- **Decompression**
  - Will not burst or implode in cargo hold, cabin or cockpit of unpressurized aircraft
  - Safe for use on summit of Mount Everest



# Survivability

Passes rigorous military 810F standards (MIL-STD-810F)

- **Drop**
  - 26 drops from 4 feet
  - 38 drops total: Method 516.5, Procedure IV
- **Vibration**
  - Passes general minimum integrity test
  - Passes loose Cargo test
  - Has no internal moving parts
    - No hard drive
    - No fan
- **Extreme Temperature**
  - Functions in bitter cold
  - Performs in blistering heat
  - Documented 2009 Iditarod in some of harshest weather conditions ever
  - Operating: -22°F to 140°F
  - Storage: -40°F to 158°F
  - Shock: -35°F to +150°F
  - Humidity: 90%RH temp cycle 0°C/+70°C



# Reliable

- **Battery: Lasts a full work day**
  - Dual hot swappable
  - Lithium-ion
- **Standard batteries**
  - 2600 mA each
  - 4 hr in typical use & temp
- **Extended batteries**
  - 5100 mA each
  - 8 hr in typical use & temp
- **Intel Atom Z530 processor**
  - Low power consumption

# Readable

- Sunlight readable display
- Proprietary optical bonding technology
  - Minimizes layers between eye and light source
    - Reduces reflection
    - Reduces light refraction
    - Maximizes 650 Nit output
  - Makes the screen easy to read in rugged outdoor environments



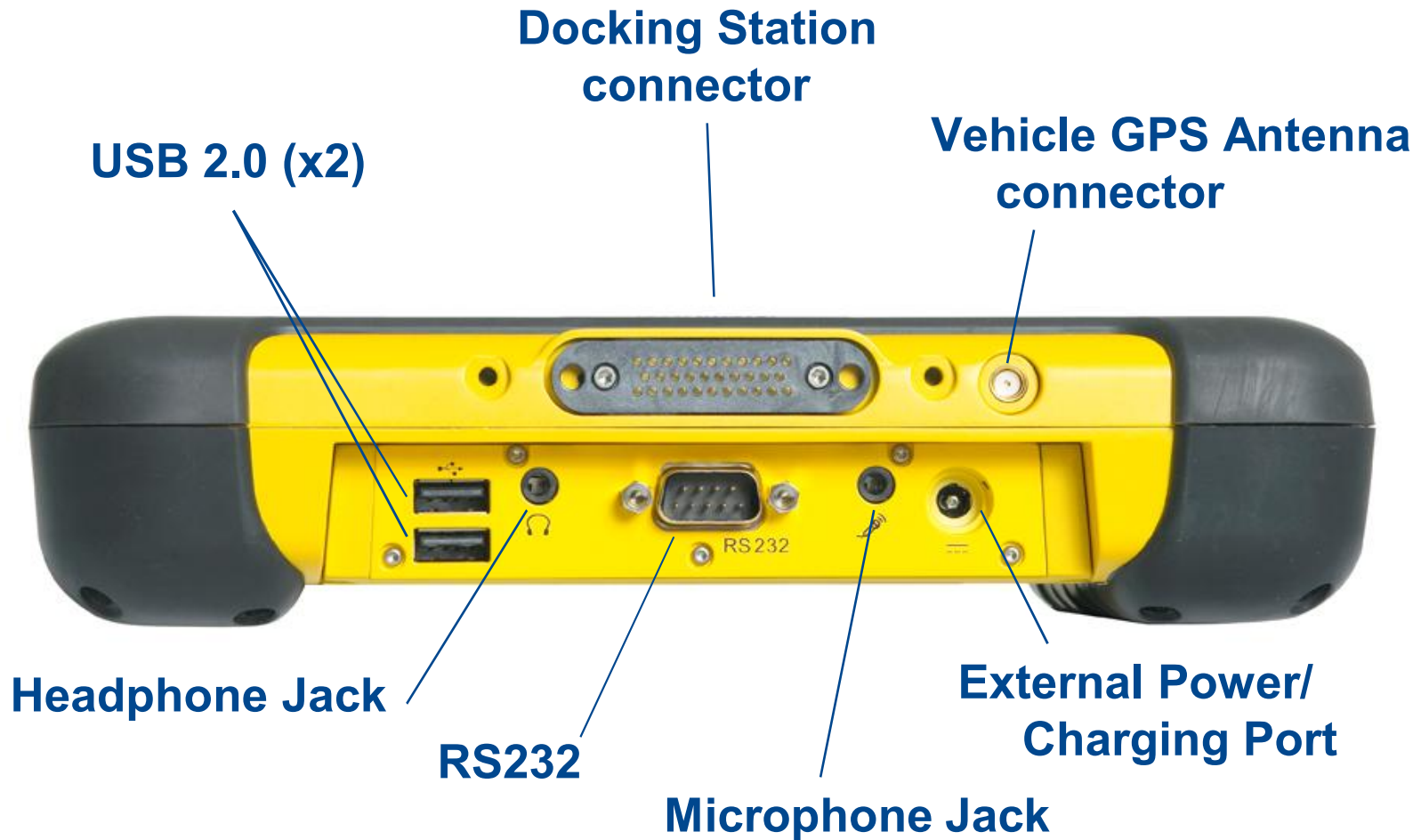
# Stay connected

- **In the field**
  - Access the Internet
  - Transfer data
    - WiFi
    - WWAN
- **To other devices**
  - Bluetooth
  - USB
  - Serial
- **In the office**
  - Ethernet via Office dock
  - Wireless via WiFi
- **Capitalize on web-based applications**
- **VoIP**
  - Skype (voice only or video)
- **WWAN solution available as an accessory**
- **Use standard VPN instead of ActiveSync**
- **Rely on WiFi device to device communication**

# Yuma, the rugged tablet computer



# Making connections





# Basic Accessories

Included with your Yuma purchase

- AC charger/power cord
- Dual standard batteries
- Hand strap
- Stylus pen
- Tether for stylus
- Extended Cap
- Display cleaning cloth
- Screen protector



# Accessories for Purchase

- **Tactical vehicle mount**
- **Dual extended batteries**
- **Office docking station**
- **Deluxe carrying case**
- **Rugged keyboard**
- **Vehicle charging kit**
- **International adaptor**
- **Pole mount**



# WWAN ExpressCard Compatibility

## CDMA: Verizon Kyocera KPC680

- Technical and Order Information:
  - <http://www.kyocera-wireless.com/kpc680-pc-card/index.htm>
- Capable of data download speeds of up to 3.1 Mbps and upload speeds of 1.8 Mbps on EV-DO Rev. A services
- Dual-Band, 1X-EV-DO Rel. 0 & Rev. A ExpressCard PC Card
- Unique (patent-pending) antenna design provides superior performance
- Dual external antenna ports for signal flexibility



## GSM: AT&T Option GT Ultra

- Technical and Order Information:
  - <http://www.option.com/en/products/products/wireless-data-cards/globetrotter-express-hsupa-w/>
- High-performance, multi-band Wireless Datacard for the professional
- Wireless DSL-like speed: Upload 2.0Mbps, download 7.2Mbps
- Triple-band 3G and Quad-Band 2G support for global coverage
- High performance ExpressCard design with Advanced Receiver Technology
- Zero-CD Plug 'n' Play technology



### Other cards can be used. Selection criteria:

- Windows Vista Business Compatible
- Maximum dimensions: Length: 117mm; Width: 34mm; Thickness: 16mm
- Strongly recommend testing fit prior to purchase



# Powerful. Mobile. Just like you!



[www.trimble.com/rugged](http://www.trimble.com/rugged)  
541.750.9200



a think tank

ultra fast even in the worst conditions

real-time connected

cool under extreme heat

can handle the dirty work

always ready to go

accomplishes great feats

your best field hand