Archer Field PC

Product Overview

The Archer is a rugged PDA built for the field. It is waterproof and dustproof (IP67) featuring long battery life, sunlight readable display, and operation in extreme temperature.

You can Integrate GPS, Wi-Fi, RFID, barcode or data acquisition functionality with the Archer by adding peripheral devices sealed with an extended cap. Natural resource managers map, assess, inventory, and measure forests, fisheries, wildlife, rangeland, water, wetland and underground resources to ensure sustainability.

New features

- Windows Mobile 6.1 operating system
- 512 MB standard data storage
- Support for SD and SDHC cards, SDIO and CF cards
- Archer Longbow remote positioning GPS solution includes the Archer with a GPS receiver, 3D compass, digital camera, and a laser rangefinder
- Archer plus XF101 DGPS receiver delivers real-time, sub meter geospatial data
- Model with FM Approved Non-Incendive Class 1 Div 2 approval for use in hazardous conditions
- Operating system available in 16 languages
- Power dock and travel charger
- Sealed, resistive, pressure sensitive touch screen
- Convenient on board stylus storage, tetherable stylus
- Available in Safety Orange, Subdued Gray, and OD Green/NATO Green

Archer Field PC Specifications

Features	
Wireless Communication	• Integrated Bluetooth wireless technology option. Class 1 receiver allows connectivity with Bluetooth technology devices within (20m). Bluetooth technology profiles supported: serial port (SPP), dial-up networking (DUN), object push (OPP), human interface device (HID), and printer. • Supports CF or SD Bluetooth technology cards. Wi-Fi supported (requires SD or CF Wi-Fi adapter card for wireless networking).
CF & SD Card Slots	• Compact Flash: Type I or Type II for data storage and other peripherals. Secure Digital (SD, SDIO, SDHC) can be used with memory cards and other peripherals. • User accessible, fully sealed, optional extended cap for GPS, Bluetooth, cellular modems, barcode, and other extended cards.
High Contrast Colour Display	Active viewing area: 89mm diagonal. High visibility TFT active matrix transflective LCD. Transflective technology gives brilliant contrast, even in direct sunlight. QVGA, 240 x 320 pixels, selectable portrait or landscape view.
Data	
Data Storage	512 MB Flash Disk
Memory Capacity	128 MB low-power RAM, efficient use of RAM by providing more memory for larger applications and databases
Operating Conditions	
Operating System	• Microsoft Windows Mobile 6.1 Classic operating system Non-volatile, secure, stored in Flash, protected from accidental erasure • Available with 16 languages including Chinese-simplified, Chinese-traditional, Danish, Dutch, English, Finnish, French, German, Italian, Japanese, Korean, Norwegian, Portuguese, Russian, Spanish, Swedish
Processor	Intel XScale PXA270, 520 MHz

Forestry Applications

- Forest inventory
- GIS and mapping
- Log scaling
- Lumber grading
- Insect and disease assessment
- Wild land fire management
- Silvicultural assessments
- Water quality

Water Management Applications

- Profiling
- Surveying
- Monitoring of surface or groundwater
- Water quality assessment
- Flow and level
- Turbidity
- Aquifer storage and recovery
- Discharge monitoring
- Estuary and wetland studies
- Remediation projects
- Saltwater intrusion monitoring
- Storm surge analysis

Environmental Management Applications

- Environmental impact statements
- Mapping invasive species
- Wetland delineation
- Wildlife surveys
- Raptor studies
- Riparian zone mapping

Fisheries Management Applications

- Collection of biological composition data
- Growth analysis
- River system productivity
- In-season run strength estimation
- Catch allocations
- Stream survey
- Creel census
- Electrofishing

Archer Field PC Specifications

Power	
Power supply	Intelligent, rechargeable, lightweight Li-Ion battery pack
Battery Life	Operates for up to 20 hours on one charge
Charging Voltage	14.04 W-h (nom.)
Dimensions	
Dimensions	**Length:** 165 mm Width: 89 mm Depth: 43 mm
Weight	482 g
Enunciators	• External power/charge LED indicates battery charging status • Notification LED to alert the user of events on the device • Other enunciators on system tray

Communications Module (patent pending)

- USB host can control other devices
- USB device (Mini B) synchronises information to the desktop
- 12 VDC jack for power input and battery charging (wall mount or vehicle charger), 10 V—18 V
- Modular, field replaceable, can be customised

Keyboard

- Four-way directional button
- Standard key functions
- Keys can be user-defined
- LED backlit keys

Accessories

- Expansion caps
- Communication cap
- Universal extended cap
- Optical cap
- Data acquisition cap
- Archer power dock
- travel charger
- Cigarette lighter power adapter
- Li-Ion battery pack