

# Archer-PCon

## Rugged Field Data Collection Package

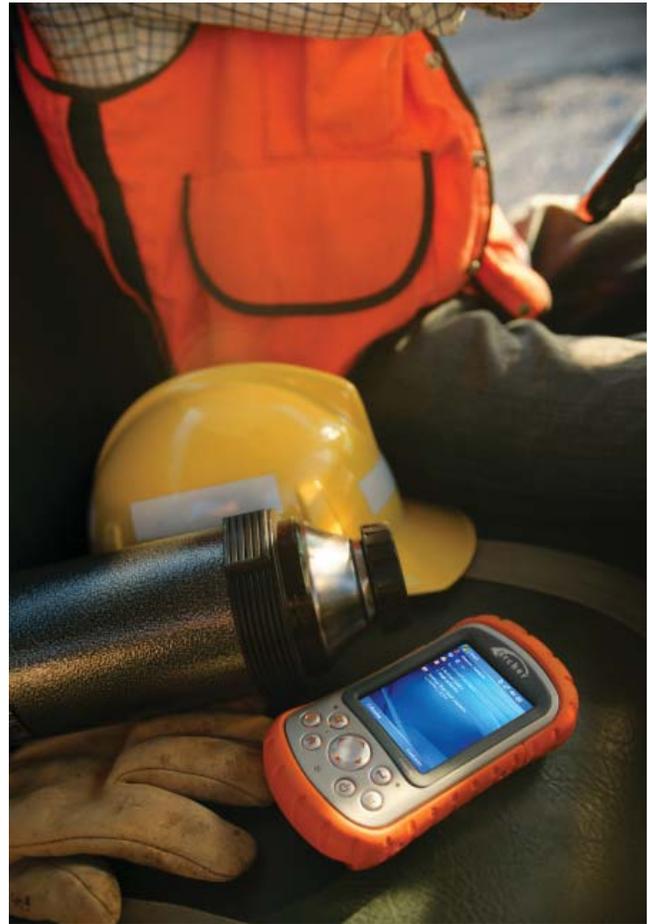


Archer-PCon provides a portable data collection solution for Campbell Scientific data acquisition systems. It consists of Juniper Systems' Archer Field PC, Campbell Scientific's PConnectCE Datalogger Support Software, and the hardware required to connect the field PC to a Campbell Scientific datalogger.

### Rugged Design

The Archer Field PC is ultra-rugged, meaning you can be sure your data is safe—even in extreme environments. Losing data is costly. Think about the cost of labor for a day. If you lose your data because your laptop or PDA stops working, you lose the cost of your labor as well as the cost of the computing device.

With an IP67 sealed rating, the Archer Field PC is completely sealed against dust and water. And it won't break down or fail in extreme temperatures – it is made to operate in temperatures as cold as -30°C or as hot as 50°C. The Archer Field PC has been designed to withstand multiple drops onto concrete from 5 feet. Couple these features with a battery life of up to 20 hours and a screen designed for readability in direct sunlight, and you've got a hand-held data collection device that won't let you down when the going gets tough.



### Archer-PCon Components

- Archer Field PC that features:
  - 128 Mbytes of RAM and 256 Mbytes of internal data storage
  - Microsoft Windows Mobile 6.1 operating system
  - Large, tactile, backlit keys
  - Outdoor readable color display with portrait or landscape view
  - Easy-to-grip over molding that form fits your hands
  - Li-Ion battery pack that operates for more than 20 hours on one charge
  - Fast Intel XScale PXA 270, 520 MHz processor
  - User-accessible CompactFlash (CF) and Secure Digital (SD) card slots
- Hand Strap
- International Wall Charger Kit (includes wall charger and USA, Euro, UK, and Australian plug adapters)
- USB Cable (mini to full)
- Full-sized Captured Stylus
- Microsoft® Getting Started CD
- Documentation CD with User Manual
- Premium Screen Protectors
- Connector Protector
- Software CD with PConnectCE
- SC32B Optically Isolated RS-232 Interface and interface cables
- 10873 9-Pin Female to 9-Pin Male Serial Data Cable

## PConnectCE Software

PConnectCE Datalogger Support Software allows you to:

- Communicate with our CR200-series, CR500, CR510, CR10(X), CR800, CR850, CR1000, 21X, CR23X, CR3000, and CR7; both the mixed-array datalogger operating system (OS) and PakBus® datalogger OS are supported
- Create unique station files for each datalogger
- Collect data from the datalogger
- View real-time datalogger measurements. Measurements are updated every two seconds.
- Display Final Storage data in tabular or comma-separated format
- Set datalogger flags, ports, and clock
- Copy datalogger programs from the datalogger to the Archer
- Access the datalogger terminal mode
- Graph one element from any array
- Send data at baud rates of 38,400 bps (CR800, CR850, CR1000, CR23X, CR3000) and 9,600 bps (all other dataloggers)
- Transfer data collected from the datalogger to an office PC
- Communicate using a direct serial connection or RF401-series Spread Spectrum Radio

## Specifications

<b>Processor:</b>	520 Mhz PXA270
<b>Archer Field PC Operating System (OS):</b>	Microsoft® Windows Mobile® 6.1
<b>Memory:</b>	128 Mbytes RAM; 256 Mbytes internal data storage
<b>Display Description:</b>	High Visibility 1/4 VGA TFT Color
<b>Keyboard Features:</b>	LED backlit keys
<b>Buttons Available:</b>	Start, four-way directional, enter applications manager, power, and context menu (key functions can be user-defined)
<b>Ports</b>	
<b>Serial:</b>	RS-232C 9-pin sub D connector with 5 Vdc power on DTR pin
<b>Power Jack:</b>	12 Vdc @ 800 mA power in, 10 to 18 V unregulated
<b>Memory Card Slots</b>	
<b>CompactFlash (CF):</b>	One type-1 or type-2 CF card fits into the CF card slot. Use only industrial-grade CF cards with a storage capacity of ≤2 Gbytes.
<b>Secure Digital (SD):</b>	One SD card or Secure Digital Input Output (SDIO) card fits into the SD card slot.
<b>Certifications &amp; Standards:</b>	FCC Class B; CE Mark; EN60950; RoHS Compliant; FM Approved Class I, Div 2

<b>Battery Type:</b>	Intelligent 3900 mAh Li-Ion
<b>Expected Life:</b>	Operates for more than 20 hours on one charge
<b>Time to Recharge:</b>	Charges in 4 to 6 hours

### *Environmental*

<b>IP Standard:</b>	IP67 waterproof and dustproof
<b>Temperature Range Operating:</b>	-30° to 55°C (minimum temperature for Bluetooth communication is -20°C)
<b>Storage:</b>	-30° to 60°C
<b>Shockproof:</b>	Survives multiple drops from 5 ft (1.5 m) onto concrete
<b>Testing Standards:</b>	MIL-STD810F for water, humidity, sand and dust, vibration, altitude, shock, temperature

### *Physical*

<b>Construction:</b>	Magnesium case with scratch resistant powder coat, and easy-to-grip, impact-absorbing overmold
<b>Dimensions</b>	
<b>Length:</b>	6.5 inch (16.5 cm)
<b>Width:</b>	3.5 inch (8.9 cm)
<b>Depth:</b>	1.7 inch (4.3 cm)
<b>Weight:</b>	17 oz (482g)

