



Field PC with Software

Collect and view data, and perform simple datalogger maintenance

Overview

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 Sup-

port Software, and the hardware required to connect the field PC to a Campbell Scientific datalogger.

Benefits and Features

- › Compatible with most Campbell Scientific dataloggers
- › Monitors and graphs data on site
- › Allows you to control dataloggers and transfer datalogger programs
- › Ultra-rugged, ensuring that the data is safe—even in extreme environments
- › Operates in temperatures as cold as -30°C or as hot as 50°C
- › Outdoor readable color display with portrait or landscape view
- › Long battery life—up to 20 hours
- › Completely sealed against dust and water
- › Easy-to-grip overmolding
- › Large, tactile, backlit keys

Rugged Design

The ultrarugged Archer Field PC ensures that your data is safe—even in extreme environments. With an IP67 sealed rating, it 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.



Components

- › Archer Field PC
- › 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
- › Campbell Scientific software CD with PConnectCE software
- › 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 CR800, CR850, CR1000, CR3000, CR200(X)-series, CR500, CR510, CR10(X), 21X, CR23X, , 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 that 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

- › Construction: Magnesium case with scratch resistant powder coat, and easy-to-grip, impact-absorbing overmold
- › Processor: 520 Mhz, Intel XScale PXA270
- › Archer Field PC OS: Microsoft Windows Mobile 6.1
- › Memory: 128 MB RAM; 256 MB of internal data storage
- › Display Description: High Visibility 1/4 VGA TFT Color
- › Certifications and Standards: FCC Class B; CE Mark; EN60950; RoHS Compliant; FM Approved Class I, Div 2
- › IP Standard: IP67 waterproof and dustproof
- › Shockproof: Survives multiple drops from 1.5 m (5 ft) onto concrete
- › Environmental Testing Standards: MIL-STD810F for water, humidity, sand and dust, vibration, altitude, shock, temperature
- › Length: 16.5 cm (6.5 in)
- › Width: 8.9 cm (3.5 in)
- › Depth: 4.3 cm (1.7 in)
- › Weight: 482 g (17 oz)

Ports

- › Serial: RS-232C 9-pin sub D connector with 5 Vdc power on DTR pin
- › Power Jack: 12 Vdc @ 800 mA power in, 10 to 18 V unregulated

Temperature

- › Operating: -30° to 55°C (minimum temperature for Bluetooth communication is -20°C)
- › Storage: -30° to 60°C

Memory Card Slots

- › CompactFlash (CF): 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 GB
- › Secure Digital (SD): One SD card or Secure Digital Input Output (SDIO) card fits into the SD card slot

Keyboard

- › LED backlit keys
- › Buttons Available: Start, four-way directional, enter applications manager, power, and context menu (key functions can be user defined)

Battery

- › Type: Intelligent 3900 mAhr Li-Ion capacity of ≤2 GB
- › Expected Life: Operates for more than 20 hours on one charge
- › Time to Recharge: Charges in 4 to 6 hours

