



Allegro CX™



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# Allegro CX™

Rugged to perform in the most demanding environments so you can get your work done.



*fast wireless color*

You have come to expect ruggedness, reliability, and flexibility from the Allegro line of rugged field computers from Juniper Systems, Inc. We continue to meet this commitment with the Allegro CX Field PC. Exciting features such as a color display option and a fast processor make field data collection even more productive.



## Features

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### **Fast**

Intel® XScale®, 400 MHz

### **Intuitive**

Windows® CE .NET 4.2

### **Color**

Active Matrix TFT Color Display

### **Wireless**

Integrated Bluetooth

### **Rugged**

Withstands Extreme Temperatures

### **Impervious**

Waterproof, Dustproof, IP67

### **Plentiful Memory**

128 M

### **Secure Data Storage**

512 M, 1 G

### **Communicates**

2 Serial Ports, USB, IRDA

### **Efficient**

NiMH Battery

### **Expandable**

GPS, Bar Code, WLAN

### **Field-Friendly**

Ergonomic Design

### **Handy**

62 Large Keys

### **Real Time**

Internal Battery-Backed Clock

### **Versatile**

Accessible PC Card

### **Hear It**

Multi-Media Sound

Please visit our website at: [www.junipersys.com](http://www.junipersys.com)



Allegro Cx™



ID	Name	Latitude	Longitude
A6	Ghost	39° 6.400 N	110° 40.314 W
M1	Sheep	39° 6.405 N	110° 40.416 W

F11 F12  C   
F1 F5 F2 F7 F3 F9 F4 F8 F6 F10

7 8 9 Brk Esc  
4 5 6  BkSp  
1 2 3 ENTER  
0   
- . Start   
[Blue] [Yellow] TAB  
Alt A \ B / C ; Ctrl  
D \* E ~ F < G > H | I |  
J + K = L | M & N ( O )  
P % Q @ R # S \$ T ! U |  
V ^ W ' X : Y ` Z ' \_ "  
CapLk Shift Ins ? [Space] Del | On/Off

# Specifications

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## Processor

- Intel® XScale® processor, 400 MHz

## Operating System

- Microsoft® Windows® CE .NET V4.2

## Memory (RAM)

- 128 M SDRAM

## Data Storage

- Solid state disk storage: 512 M, or 1 G
- Does not require battery power to maintain data
- Internal, not user-accessible

## PC Card Slot (PCMCIA)

- User-accessible
- 16 bit PC card, user removable (does not accept 32 bit Bus-type cards)
- Accepts Type I or II 3V/5V PC cards
- Can use ATA, Compact Flash, micro hard disk, modems, wireless networking cards, and other I/O cards

## Communication Options

- USB Port: Connection on base of unit to be used with USB/Power Dock™
- COM 1: Sealed 9-pin D, full modem control signals, 5V @ 200 mA available on DTR pin, controlled by DTR
- COM 2: Sealed 9-pin D, full modem control
- Infrared Port
- Bluetooth transceiver, integrated (optional);
  - » Profiles: Serial, printer, telephone, LAN
  - » Transceiver: Class 2 Bluetooth
  - » Range: 30 foot radius (10 meters)
  - » Internal, does not use PC card slot

## Color Display

- Active viewing area: 3.0" wide x 2.3" high (3.8" diagonal)
- High visibility color TFT active matrix transfective LCD
- 1/4 VGA, 320 x 240 pixels, landscape view
- Transfective technology for brilliant contrast, including use in direct sunlight
- Includes graphic accelerator for high performance operation
- LCD has an LED backlight with adjustable brightness capability for visibility in low lighting or changing light conditions
- Color TFT technology allows operation in cold temperatures without a heater

## Monochrome Display

- Active viewing area: 3.3" wide x 2.5" high (4.1" diagonal), 18% larger than comparable units
- Monochrome LCD: High visibility with paperwhite-like background, black on white, high contrast
- 1/4 VGA, 320 x 240 pixels
- LCD has an LED backlight with adjustable brightness capability for visibility in low lighting or changing light conditions
- LCD has extended temperature range to work better in cold or heat; automatic contrast adjustment for temperature compensation
- Display heater for operation in cold environments; heater can be set to turn on automatically when temperature is cold enough to require heater

## Touchscreen

- Resistive, pressure sensitive touchscreen for stylus or finger operation
- Touchscreen disable button
- Touchscreen transmissivity of 84%, non-reflective

## Programs Included

- PTab® Spreadsheet, Calculator, and the Microsoft programs Windows Explorer®, InBox® Email, Pocket Internet Explorer®, and WordPad®
- Microsoft ActiveSync® is included on the distribution CD-ROM

## Physical Specifications

- Size: 10" high x 5.25" wide at display x 3.1" wide at narrowest point x 1.5" deep (256 mm x 133 mm x 79 mm x 38 mm)
- Weight: 1.84 lbs or 29.5 oz (836 grams)
- Operating Temperature: -22 to 130° F (-30 to 54° C)
- Storage Temperature: -30 to 140° F (-35 to 60° C)
- Waterproof and Dustproof: Passes MIL-STD 810F and IP67
- Shockproof: Passes MIL-STD 810F shock (drop) test

## Keyboard

- 62 large keys advantageous for use with gloved hands
- 12 function keys: Located directly under the display; convenient in applications as soft keys
- Special keys: Windows start, task manager, contrast adjustment, touchscreen disable, display backlight on/off
- Large round cursor control button
- Forward and backward tab keys (no shifting required)
- Numeric keys are large and centrally located
- All standard printable ASCII characters are on the keyboard
- Keys have a snappy tactile feel
- Removable keyboard bezel for cleaning and customization; remains sealed when removed

## Case Design

- Ergonomic with balanced weight distribution
- Rugged; 100% sealed against water and dust, passes IP67
- Designed for one-handed operation (right or left)
- Rings at all 4 corners of the case for hand strap and shoulder strap; multiple strap orientations are possible

## Power

- Rechargeable 3.6V 3800 mAH NiMH high capacity battery pack (camcorder battery)
- NiMH batteries last 12 to 20 hours depending on the application (max. continuous use is about 30 hours)
- Separate power input connector for charging and direct power input, 10-20 V DC, 5.5 x 2.1 mm DC power jack
- Vehicle charging power adaptor (optional)
- Rapid internal smart-charging in 3 to 5 hours; automatically switches to trickle charge mode to preserve charge and prevent battery from overcharging
- Alkaline battery holder uses 3 AA alkaline cells (optional)

## Sound

- Screen taps, key beeps
- Sounds can be customized and associated with events
- Volume is adjustable
- Audio/video playing capabilities with Windows Media™ Player 9 Series

## Clock

- Internal real time clock backed by lithium battery; No need to reset time and date if unit is reset, as required with some comparable units
- +/- 3 minutes per month accuracy

## Certifications

- FCC Class A
- European CE Mark

## Expandability

- Expansion Pods: Integrate additional components with the Allegro CX; pods replace the PC card door and remain fully sealed
- Integrated GPS receiver, 802.11b, bar code scanner, and other custom pods

## Patents

- US 6,421,234 B1 Handheld Electronics Device Having Ergonomic Features
- US 6,407,911 B1 Sealed Portable Electronics Device Having Expansion Port
- US 6,488,425 B1 Keypad and Removable Bezel

# Tough & Field Ready

## IDEAL for any rugged application.

If you work in harsh environments, we serve your data collection and GIS/GPS needs.

## Your data are SAFE.

Go ahead and work in driving rain, hot environments or cold temperatures. Get the Allegro muddy or sandy, accidentally drop it on the ground or in a stream.

## Superior CUSTOMER SERVICE.

When you need assistance with your Allegro, we are here for you.

## TRY it for yourself.

If you would like to have a two-week demonstration Allegro, contact our sales department to make arrangements.

# Allegro CX™

Juniper Systems, Inc. provides rugged field computers, mobile GIS and GPS, and HarvestMaster brand data collection tools for agriculture. For detailed information about our products, contact our sales department or our representative in your area.



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