Allegro CX™ Field PC Specifications

Processor
- Intel® XScale® processor, 400 MHz

Operating System
- Microsoft® Windows® CE. NET V4.2

Programs Included
- PTab® Spreadsheet, Calculator, and the Microsoft programs Windows Explorer®, InBox® Email, Pocket Internet Explorer®, and WordPad® are included on the Allegro CX
- 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 leak (immersion) tests
- Shockproof: Passes MIL-STD 810F shock (drop) test

Communication Ports
- USB Port: connection on base of unit to be used with USB/Power Dock™; multiple docks can be chained through communication hub; USB MultiSync™ feature provides synchronization between one host PC and multiple Allegro CX units
- COM 1: Sealed 9-pin D, filtered for EMI, full modem control signals, 5V @ 200 mA available on DTR pin, controlled by DTR
- COM 2: Sealed 9-pin D, filtered for EMI, full modem control
- Infrared Port
- Bluetooth® card (optional); integrated with color display

Bluetooth Transceiver, Integrated (with color display option only)
- Profiles: serial, printer, telephone, LAN
- Transceiver: Class 2 Bluetooth
- Range: 30 foot radius (10 meters)

Internal Expansion Port
- COM 3: Internal expansion bus connections, full modem control signals, signal levels 0 to 3.3V straight from UART, no buffering, ring signal causes unit to resume from a suspend state
- Expansion Port: Contains low 3 address bus signals, low 8 bit data bus, bus control signals, COM 3 signals, and GPIO

Color Display
- High visibility color TFT active matrix transflective LCD, .24 mm dot pitch, .23 mm dot size
- 1/4 VGA, 320 x 240 pixels, landscape view
- Transflective technology for brilliant contrast, including use in direct sunlight
- Includes MX1178 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
- Active viewing area: 3.0" wide x 2.3" high (3.8" diagonal)
- Touchscreen disable button allows you to clean the screen or operate unit in inclement weather
- Touchscreen transmissivity of 84%, non-reflective

Monochrome Display
- Monochrome LCD: High visibility with paperwhite-like background, black on white, high contrast, .26 mm dot pitch, .25 mm dot size
- 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
- Active viewing area: 3.3" wide x 2.5" high (4.1" diagonal), 18% larger than comparable units
- Touchscreen disable button allows you to clean the screen or operate unit in inclement weather
- Touchscreen transmissivity of 84%, non-reflective

Status Tray Indicators
- Indicators shown, when applicable, in the lower right corner of the Allegro CX screen:

Remaining battery charge	ActiveSync connection
Data storage activity	Bluetooth
Caps lock on	Heater on (monochrome display)
PC card activity	Touchscreen disable
External power input	Charging indicator

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; Allegro remains sealed when it is removed

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

Memory/Storage
- 64 M or 128 M SDRAM
- Solid state disk storage: 128 M, 512 M, or 1 G

PC Card Slot
- 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, SRAM, Bluetooth communications cards, modems, wireless networking cards, and other I/O cards

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)
- Alkaline battery holder uses 3 AA alkaline cells (optional)
- Power manager automatically switches unit into low power mode for optimum efficiency
- Separate power input connector for charging and direct power input, 10-20 V DC, 5.5 x 2.1 mm DC power jack
- Vehicle charger is available
- Rapid internal smart-charging in 3 to 5 hours; automatic switch to trickle charge mode to preserve charge and protect battery

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
- +/- 3 minutes per month accuracy

Certifications
- FCC Class A
- European CE Mark
- Bluetooth

Expandability
- Expansion Pods: Allow you to 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, RF ID and other custom pods

Juniper Systems, Inc. a Campbell Scientific Company
1740 N. Research Park Way
Logan, UT 84341-1977 USA

Telephone: 435.753.1881
Fax: 435.753.1896
Email: js@junipersys.com
Website: www.junipersys.com