

Allegro CE™ Field PC Specifications



Processor

- Intel® StrongARM® SA1110 processor, 206 MHz

Operating System

- Microsoft® Windows® CE 3.0
- Microsoft® Windows® CE. NET (optional)

Programs Included on Allegro

- PTab® Spreadsheet, Calculator, and the Microsoft programs Windows Explorer®, InBox® Email, Pocket Internet Explorer®, and Pocket Word®

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-810E-512.3 and IP67 leak (immersion) tests; to pass, the Allegro CE is submerged under the equivalent of 2 meters of water for 2 hours
- Shockproof: Passes MIL-810E-512.4 shock (drop) test; to pass, the Allegro CE is dropped on each face and corner from 5 feet (1.52 m) onto a hard surface

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 CE 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

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

Display

- High visibility LCD with paperwhite-like background, black on white, high contrast, .26mm dot pitch, .25mm 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; 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
- Onboard mini stylus and full size stylus included
- Touchscreen disable button allows you to clean the screen or operate unit in heavy rain
- Touchscreen transmissivity of 84%, non-reflective

Status Tray Indicators

- Indicators shown in the lower right corner of the Allegro CE screen in the status tray include:
 - Remaining battery charge
 - Data storage activity
 - Caps lock on
 - PC card activity
 - External power input
 - Charging indicator
 - Touchscreen disable

Keyboard

- 62 large keys advantageous for use with gloved hands
- 12 Function Keys: Located directly under the display; convenient for use in applications as soft keys
- Special Keys include: 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
- 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 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

- 32 M, 64 M, or 128 M SDRAM
- Solid state disk storage: 32 M, 64 M, 128 M, 256 M or 512 M
- 256KB Flash EPROM for Windows CE Boot Loader

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

Clock

- Internal real time clock
- +/- 3 minutes per month accuracy

Certifications

- FCC Class A
- European CE Mark

Expandability

- Expansion Pods: Allow you to integrate additional components with the Allegro CE; Pods replace the PC card door and remain fully sealed
- Integrated GPS receiver, 802.11b, bar code scanner
- Future expandability options include an RF ID reader and analog sensor input

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Patents Issued:

- US 6,421,234 B1 Handheld Electronics Device Having Ergonomic Features
- US 6,407,911 B1 Sealed Portable Electronics Device Having Expansion Port



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