

HX3

Rugged Voice Computer

LXE | FLEX | Wearable Computers



The HX3 voice computer is truly an open system, non-proprietary device. It gives voice integrators a perfect platform for deploying voice-centric applications. Built with ToughTalk™ technology, a specialised combination of LXE's trademark rugged system design, advanced audio circuitry and noise-canceling techniques, the HX3 offers high quality speech exchange capabilities in the harshest environments, even in cold stores at -40°C.

The lightweight HX3 computer is designed to be 'forgotten' by the operative using it, by offering a natural interaction with the voice-driven logistics system.

A simple programmable keypad executes common tasks easily. The HX3 hands-free computer also supports wired and wireless headsets, barcode scanners and imagers for multimodal applications. And like all LXE computers, the HX3 is Born Rugged, Not Made Rugged™.



RUGGEDNESS

Magnesium alloy bezel with high impact case for survival in harsh environments.

COMFORT

Small, light-weight design offers comfort for full-shift operations. Large Eyes-Free Keyboard simplifies common tasks.

OPEN TECHNOLOGIES

- 802.11b/g radio.
- Windows® CE 5.0 OS.
- Bluetooth 2.0+EDR.



HX3

TECHNICAL SPECIFICATIONS



PLATFORM

Processing & Memory

- PXA255 400MHz
- 128MB SDRAM
- 128MB or 512MB Flash

Operating System

- Windows® CE 5.0 Professional Plus
- Non-volatile storage of resident drivers, applications and settings

Eyes-Free Keyboard™

- 4 large keys with hard caps for long life and abrasion protection
- 3 functional keys + 1 modifier key allows 3 one-touch keys and 3 two-touch keys
- Unique key shapes for easy Eyes-Free navigation
- Keyboard mapping support

Power System & Management

- 12-hr standard battery (w/typical use)
- 24-hr extended battery (w/typical use)
- Batteries are remotely tethered for added flexibility and comfort
- Backup battery w/automatic charging for main battery hot swap
- Active power management (configurable)

Enclosure

- Magnesium alloy bezel with high impact plastic case
- Dimensions: 12.6cm x 8.9cm x 3.6cm
- Weight:
 - HX3 - 264g
 - SR laser ring - 42g
 - Standard battery - 130g

CONNECTIVITY

Software

- Barcode wedge, RF, audio mixer, power management and diagnostic utilities
- SDK with Microsoft® & LXE APIs
- Support VoIP (PTT) and voice recognition software

Optional Software

- RFTerm® (VT220, TN5250, TN3270)
- AppLock utility controls user application-access & unwanted configuration changes
- Personal JAVA 1.2 JVM
- Localisation for English, simplified Chinese, traditional Chinese, Korean, Thai and Japanese
- Barcode wedge, RF, audio mixer, power management and diagnostic utilities

Interfaces

- Ring-scanner interface
- Built-in microphone & speaker for VoIP
- Speaker supports >102 dB volume
- Headset interface for voice recognition and VoIP
- USB host, USB client, RS-232 through cradle
- Power input

Radio Card Support

- 802.11b/g (2.4GHz)
- 802.11a/b/g (2.4GHz & 5GHz)
- 802.11b/g (2.4GHz) + Bluetooth
- WPA, WPA 2
- Optimized internal diversity antenna
- Bluetooth 2.0+EDR class 2 radio

RUGGEDNESS

Environmental

- Temperature rating
 - Cold start down to -20°C
 - Operation in freezers to -40°C when worn under an outer garment.
 - Maximum operating temperature 50°C
- Humidity Operating: 5% to 90%RH non-condensing at 40°C
- Drop Specification: 1.2m multiple drops to concrete
- Ingress protection enclosure rating: IEC 60529 compliant to IP54

Approvals

- Emissions (EMI)
 - FCC Part 15 Subpart B, Class A
 - Industry Canada ICES-003 Class A
 - EN 55022, Class A (CISPR22)

- Immunity (EMC)EN 55024:1998
- Safety
 - UL 60950CSA C22.2 No. 60950EN 60950, IEC 60950
- Laser SafetyCDRH: 21 CFR 1040.10, EN 60825-1 and IEC 60825-1
- Radios separately approved to:
 - FCC Part 15, Subpart C
 - IndustryCanada RSS 210, RSS 102, RSS 139 and/or 210
- R&TTE Directive:
 - EN 300 328, EN 300 826, EN 60950FCC Part 15 Subpart B, Class A
 - Industry Canada ICES-003 Class A
- RoHS-compliant

DATA CAPTURE

Bar Code Ring Scanner

- SR laser ring - 45" scan distance Available w/long cables to attach to hip flip or voice case
- 2D imager ring - 21" scan distance Available w/long cables to attach to hip flip or voice case
- Enhanced white LED flash illumination

ACCESSORIES

Wearable Accessories

- Belt-mounted hip-flip
- Belt-mounted voice case

Other Accessories

- 6 bay battery charger w/analyzer
- Desktop cradle - powers HX3 computer, 2 battery charging slots, USB host, USB client and RS-232
- ActiveSync cable (does not require cradle)

- Headset adapter cable
- Replacement battery cable
- Battery extension cable (allows battery to be worn a greater distance from the HX3)
- USB host cradle cable
- USB client cradle cable
- RS-232 cradle cable

Download accessory catalogue at www.lxe.com

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