FALCON™ X4

◇DATALOGIC

CHOICE OF WINDOWS EMBEDDED OR ANDROID™ OPERATING SYSTEMS

Legendary Falcon with upgraded performance! The Falcon™ X4 mobile computer features a high performance multicore 1 GHz architecture that offers blazing speed when running Windows Embedded Compact OS and allows easy upgradeability to the Android™ OS. Users will never run out of memory with the standard 1 GB RAM and 8 GB Flash.

REAL-TIME DATA CAPTURE AND COMMUNICATIONS

Capture bar codes using Datalogic 1D and 2D imaging technologies. Communicate over a superior TI 802.11 a/b/g/n radio with CCX v4 compliance and MIMO technology for improved connectivity and coverage, or through wired standards including USB Hi-Speed, RS-232, Modem and Ethernet. *Bluetooth*® wireless technology v4 provides support for the new low energy mode (BLE) and for improved voice recognition via wide band audio.

ERGONOMIC AND RUGGED

Users feel the full shift difference of ergonomic handheld and pistol grip form factors to balance a 3.5 inch crystal clear display, full numeric or alphanumeric back-lit keyboards, and a one piece 5,200 mAh battery. With the best ergonomics in this market segment, the Falcon X4 mobile computer reduces operator fatigue with no compromise in terms of reliability and robustness, resisting harsh environments, repeated drops, strong shocks and repetitive tumbles.

EASY AND INTUITIVE

Develop custom solutions using the industry-leading Datalogic Software Development Kit (SDK). Deploy quickly with the included Datalogic utilities or your preferred device management solution. Manage your installed devices using the pre-licensed Wavelink Avalanche or leverage the pre-licensed Wavelink Terminal Emulation (WEC7 only).

Windows® Embedded Gold Partner · Bluetooth · Wavelink Powered · GREEN SPOT · 4-DOT AIMER

FEATURES

- Full-shift hot swappable battery
- 3.5 inch touchscreen display
- Ruggedized with 1.8 m / 6.0 ft drop to concrete and IP65 sealing rating
- Choice of 1D or 2D imagers featuring Datalogic's patented 'Green Spot' technology for good-read feedback
- Extra Long Range 2D Imager option (coming soon)
- Choice of Microsoft Windows Embedded Compact 7 or Android v4.4
- TI 802.11 a/b/g/n radio with CCX v4 compliance and featuring MIMO antenna technology
- 1 GB RAM / 8 GB Flash memory
- *Bluetooth* wireless technology v4.0 with BLE (low energy) and Wide Band Audio for improved speech recognition (Android models only)
- Corning® Gorilla® Glass 3 scan window
- WEC7 units include:
  - Wavelink® Avalanche™ and Terminal Emulation pre-installed and pre-licensed; Pal pre-installed and pre-licensed
- Upgradable to Android 4.4
- Attachable handle (and orderable pre-installed)
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

INDUSTRY-APPLICATIONS

- Warehouse and Distribution Centers: Retail, Wholesale, Manufacturing, Automotive/Industrial, Electronics, Food/Beverage, Consumer Products, Pharmaceutical, Third Party Logistics (3PL)
  - Receiving
  - Cross Docking
  - Put Away
  - Staging
  - Voice Picking
  - Shipping
  - Cycle Count
  - Inventory
  - Shelf Replenishment
  - Price Management
  - Order Entry
  - Assisted Sales
  - Production Control

TECHNICAL SPECIFICATIONS

WIRELESS COMMUNICATIONS

LOCAL AREA NETWORK (WLAN)	TI Wi-Link 8, IEEE 802.11a/b/g/n; Frequency Range: Country dependent, typically 2.4 and 5 GHz; Cisco CCX v4 compliant
PERSONAL AREA NETWORK (WPAN)	*Bluetooth* wireless technology v4 with BLE (Android models); *Bluetooth* v2.1 + EDR (WEC7 models)

DECODING CAPABILITY

1D / LINEAR CODES	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.
2D CODES	Aztec Code, Data Matrix, MaxiCode, PDF417, MicroPDF417, Micro QR Code, QR Code
POSTAL CODES	Australian Post, Japanese Post, KIX Code, Royal Mail, USPS Intelligent Mail, USPS PLANET, USPS, Postnet
STACKED CODES	GS1 COMPOSITE CODES UPC/EAN/JAN Composites, GS1 DataBar Composites and GS1-128 Composite

ELECTRICAL

BATTERY	Removable battery pack with rechargeable Li-ion batteries; 3.7 V 5200 mAh (19.2 Watt hours)

ENVIRONMENTAL

DROP RESISTANCE	Withstands drops from 1.8 m / 6.0 ft onto concrete follow IEC68-2-32 (Method 1) and 1500 random drops from 1.0 m / 3.3 ft follow EC68-2-32 (Method 2)
PARTICULATE AND WATER SEALING	IP65
TEMPERATURE	Operating: –20 to 50 °C /-4 to 122 °F Storage: -30 to 70 °C / -22 to 158 °F

INTERFACES

INTERFACES	Main connector with USB 2.0 High Speed Host (480 Mbps) and Client, RS-232 up to 115.2 Kbps; modem Ethernet: via single-slot dock (external module)

PHYSICAL CHARACTERISTICS

AUDIO	Integrated microphone, high-volume speaker
DIMENSIONS	Handheld: 22.5 x 8.8 x 5.5 cm / 8.9 x 3.5 x 2.2 in; 6.4 x 4.0 cm / 2.5 x 1.6 in at keyboard Pistol grip: 22.5 x 8.8 x 16.8 cm / 8.9 x 3.5 x 6.6 in
DISPLAY	Reflective TFT daylight readable color display, 240 x 320 pixels, 8.9 cm / 3.5 in diagonal, 65K colors, backlight, touchscreen
KEYBOARD	Polycarbonate hard cap keyboards with backlight; 29-key numeric or 52-key alphanumeric with discrete navigation
WEIGHT	Hand held: 602.0 g / 21.2 oz Pistol grip: 668.0 g / 23.6 oz

SAFETY AND REGULATORY

AGENCY APPROVALS	The product meets necessary safety and regulatory approvals for its intended use. The Users Manual for this product can be referred to for a complete list of certifications.
ENVIRONMENTAL COMPLIANCE	Complies to EU RoHS
LASER CLASSIFICATION	VLD - Class 2 IEC/EN60825-1. Compliant with 21 CFR 1040.10 except for deviations pursuant to laser notice Number 50, dated June 24, 2007.
LED CLASSIFICATION	Exempt Risk Group IEC/EN62471

READING PERFORMANCE

2D IMAGER (STANDARD RANGE)	Megapixel sensor for extended range; White LED Illumination Optical Resolution: 1D codes: 3 mils; 2D codes: 6.6 mils Depth of Field (typical): 4.5 to 74 cm / 1.7 to 29.1 in (13 mil/EAN), depending on bar code density and type
1D IMAGER	2500 pixel sensor; Sharp green LED scan line Optical Resolution: 2.5 mils (linear codes) Depth of Field: 4.0 to 74 cm / 1.5 to 29.1 in (13 mil/EAN), depending on bar code density and type
EXTRA LONG RANGE IMAGER (2D XLR)	Coming soon
SCAN WINDOW	All scan engines feature Corning® Gorilla® Glass 3 scan window

SOFTWARE

APPLICATIONS CONFIGURATION & MAINTENANCE	Pal Application Library pre-licensed (WEC7 only) Wavelink Avalanche® pre-licensed (WEC7 only), 42 Gears SureLock pre-licensed for device lockdown (Android only); SOTI MobiControl (optional), Datalogic xPlatform Utility (DXU) pre-licensed, Datalogic Desktop Utility (DDU) pre-licensed for device lockdown (WEC7 only)
DEVELOPMENT	WEC7: Datalogic Windows SDK™ Android: Datalogic Android SDK, Xamarin SDK
BROWSER	SureFox locked web browser pre-licensed for WEC7 and Android models
TERMINAL EMULATION	Wavelink® Terminal Emulation™ pre-licensed (for WEC7 models only); StayLinked SmartTE (for Android); Wavelink Velocity (for Android)

SYSTEM

AUDIO	Wideband Speech (HD Audio) supported on Android
EXPANSION SLOTS	Micro Secure Digital slot (SDHC) up to 32 GB, user-accessible
MICROPROCESSOR	TI OMAP4 @ 1 GHz
MEMORY	RAM Memory: 1 GB Flash Memory: 8 GB (partially used for firmware and reserved data)
REAL-TIME CLOCK	Time and date stamping under software control
OPERATING SYSTEM	Microsoft Windows Embedded Compact 7 (WEC7) or Android v4.4*

*OS swap from WEC7 to Android 4.4 or from Android 4.4 to WEC7 is supported on all Falcon X4 configurations. The OS swap must be performed at a Datalogic Service Center.

WARRANTY

WARRANTY	1-Year Factory Warranty

⚠ Caution: Laser Radiation - do not stare into beam

ACCESSORIES

Docks

- 94A150057 Single Slot Dock w/Spare Battery Charging Slot
- 94A150056 Multi-Ethernet Dock Charges 4 terminals and 4 Batteries
- 94A151131 Vehicle Dock

Battery Chargers

- 94A151137 Multi Battery Charger
- 94A151135 Multi Charge Only Dock Charges 4 terminals and 4 Batteries

Cases/Holsters

- 94ACC0104 Rubber Boot
- 94ACC0047 Standard Softcase with Quick Release Belt Clip

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