

COMPETITIVE ANALYSIS

Dolphin 7850

Mobile Computer



The Dolphin 7850 is a compact, pistol-grip style mobile computer that's purpose-built for scan-intensive, front-line data collection applications in retail, distribution and warehousing—designed to deliver years of reliable performance at an affordable price.

FEATURES AND BENEFITS COMPARISONS

	 Hand Held Products Dolphin® 7850	 Motorola MC9090G	 Motorola MC3090G	 Datalogic Falcon 4420
Key: Best= ★★★★★ Good= ★★★ Poor= ★				
Product Type	★★★★ Purpose-built for in-premise data collection	★ Transportation-based device retro-fitted for in-premise	★ General-purpose device retro-fitted for in-premise	★ Transportation-based device retro-fitted for in-premise
Product Class	★★★★ Industrial-grade >High impact resistant enclosure with magnesium alloy roll cage >100k duty cycle military grade USB / serial connector >Shatter-proof polycarbonate touch panel	★★★★ Industrial-grade >Impact resistant rubber bumpers with magnesium alloy frame >Non-pluggable high duty cycle USB / serial contact pins >Polycarbonate touch panel	★★★ Lightly-ruggedized >Impact resistant plastic enclosure >Consumer-grade 10k duty cycle USB / serial connector >Glass touch panel	★★★ Lightly-ruggedized >Impact resistant plastic enclosure >Consumer-grade USB / serial connector >Glass touch panel
Design Ergonomics				
Display	★★★★ Angled 3.5" color display with anti-glare finish - easy viewing without requiring user to tilt the unit, mitigating wrist strain	★ Flat 3.8" color display - requires tilting unit for viewing and is prone to excessive glare	★ Flat 3" square color display panel - requires tilting unit for viewing and is prone to excessive glare and excessive screen scrolling	★ Flat high-gloss 3.5" color display panel - requires tilting unit for viewing and is prone to excessive glare
Form Factor	Compact balanced pistol-style design with integrated handle, optimized for user comfort	Large flashlight-style product with retrofitted handle - heavy, bulky and fatiguing	Light weight flashlight-style product with retrofitted handle - inhibits battery access	Heavy flashlight-style product with retrofitted handle
Product Lifecycle	★★★★ Planned 8+ year lifecycle with continuous support	★ Product changes every 2-years: Length of on-going support not specified	★ Product changes every 2-years: Length of on-going support not specified	Availability not specified
Battery Performance	★★★★ 10+ hours in continual RF use without recharging, 1 scan every 5 seconds, display on full brightness	★★★★ Estimated 11 hours in continual RF use	★ Estimated 6 hours in continual RF use	No Spec
Software Utilities <i>*See Dolphin@7850 Presentation for details</i>	★★★★ Extensive suite of integrated software tools for simplified device programming and device replication, deployment out-of-box	★★★ Basic toolset included; additional software utilities requiring in-field installation	★★★ Basic toolset included; additional software utilities requiring in-field installation	★★★ Basic toolset included; additional software utilities requiring in-field installation

SPECIFICATION COMPARISONS

	 Hand Held Products Dolphin® 7850	 Motorola MC9090G	 Motorola MC3090G	 Datalogic Falcon 4420
Operating System	Microsoft® Windows Mobile 5.0	Microsoft® Windows CE 5.0 or Windows Mobile 5.0	Microsoft® Windows CE 5.0	Microsoft® Windows CE 5.0 or Windows Mobile 5.0
Processor	Industrial Class Intel XScale PXA270 at 520MHz	Commercial Class Intel XScale PXA270 at 625MHz	Commercial Class Intel XScale PXA270 at 520MHz	Commercial Class Intel XScale PXA255 at 400MHz
Data Collection Technology	Adaptus Imaging Technology 5.0 and laser options	Laser and 2D Imager	Laser and 2D Imager	Laser and 2D Imager
Wireless Communications				
WLAN standard	802.11b/g	802.11a/b/g	802.11a/b/g	802.11b
WLAN security	WEP, WPA Enterprise, WPA2 Enterprise, 802.1x, (TLS, TTLS, LEAP, PEAPv0, PEAPv1, EAP-FAST) Cisco CCX v4 (pending)	No Spec	No Spec	Cisco CCx, Windows Zero Configuration
WPAN	Bluetooth class 2, v1.2	Bluetooth v1.2	Bluetooth Optional	Bluetooth
IrDA Port	Yes	No	No	No
Memory	64MB RAM x 64MB Flash, 128MB RAM x 128MB Flash	64MB RAM x 64MB Flash, 64MB RAM x 128MB Flash	64MB RAM x 32MB Flash, 64MB RAM x 64MB Flash	64MB RAM x 64MB Flash, 128MB RAM x 128MB Flash
Keypad Options	24-key numeric and 38-key alpha-numeric calculator-style w/ low-glare keypad	28, 43 and 53-key options	28, 38 and 48-key options	26, 48 and 52-key options
Durability Specification				
Drop	Multiple 5ft (1.5m) drops to concrete, 6ft (1.8m) drop with optional protective boot	Multiple 6ft (1.8m) drops to concrete	Multiple 4ft (1.2m) drops to concrete	Multiple 5ft (1.5m) drops to concrete
Tumble	2000 one-meter	2000 one-meter	500 one-half meter	No Spec
Operating Temperature	14° to 122° F (-10° to 50° C)	-4° to 122° F (-20° to 50° C)	14° to 122° F (-10° to 50° C)	14° to 122° F (-10° to 50° C)
IP Rating	IP64	IP64	IP54	IP54
Weight	22 oz. / 623 g	31 oz. / 879 g	19.6 oz / 555 g	23.3 oz / 724 g
Warranty	2 year	1 year	1 year	1 year

All product specifications contained in this document were taken directly from official product documentation. This information is subject to change without notice.

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