

M7225

Handheld Computer

AML
SENSIBLE SOLUTIONS

The M7225 is a richly featured, wireless hand-held computer designed for use in retail, manufacturing, and warehouse data capture applications. Its industrial rating makes it durable enough for harsh or challenging environments, but it is lightweight and compact enough to be used in retail and other commercial applications. Powered by Windows® CE 6.0, the M7225 is available with an 802.11g + Bluetooth radio, laser or 2D barcode scan engines, 3.5" high-color LCD with touch panel, and full audio support. For virtually any barcode data collection application, the M7225 is the sensible solution.



The M7225 has numerous accessories including a single slot computer charger, four (4) position device charger and a four (4) position battery charger.



Features

Full alphanumeric keypad

15.8 watt hour Li-Ion battery

Weighs just 16 oz (454 grams) w/o handle

Windows® CE 6.0

128MB RAM, 128MB ROM (microSD card for expansion)

Full audio capability

Numerous configurations available

Benefits

No limit to usability with a 55-key keypad with full alphanumeric content. Little or no "multi-stroke" entry required. Keeps keying errors to a minimum.

Enables all-day operation without a battery swap or re-charge.

Minimizes fatigue, permitting all day use in scan-intensive applications.

Latest embedded operating system from Microsoft®. Use standard Windows embedded software tools including Microsoft Embedded Visual C++ and Visual Studio to develop custom applications.

More than enough memory for virtually any software application.

Integrated amplified speaker and headphone/microphone jack. Dedicated high-power beeper for barcode scanner.

Configure the M7225 to fit the application requirements. Choose between 1D and 2D barcode scan engines, 802.11g with Bluetooth radios, or batch operation. Available with or without pistol-grip handle.

General Specs

Dimensions	225 mm L x 89 mm W x 57 mm D (8.9" L x 3.5" W x 2.3" D)
Weight	454g / 16 oz
Display	3.5" QVGA (320x240), 16-bit Color TFT LCD
Touchscreen	Integrated Resistive Touch Panel
Keypad	55-key alpha-numeric
Power	7.4V, 2200mAh Lithium-ion; 15.84 watt-hours
Internal Backup Battery	3.7V, 160mAh Lithium-ion; retains memory during battery swaps
I/O Ports	USB Host/Slave - expands through communication cradle WLAN
WLAN	Standard Internal 802.11b/g radio with integrated Bluetooth Optional high-power (63mW) Summit 802.11b/g
WPAN	Bluetooth Class 2 on-chip with standard radio
Audio	Hi-Fi Digital Audio codec with up to 48MHz sample rate Integrated Speaker and Amplifier Internal headphone/microphone driver with standard 2.5mm jack Integrated high-power scan engine beeper
Bar Code Decoding	Standard Range Laser Optional Long Range Laser Optional 2D Omni-Imager
User Feedback	Internal programmable vibration motor Good/Bad read LED

Performance Specs

Processor	Samsung® S3C2440 @ 400 MHz
Architecture	32-bit RISC ARM9 with AMBA (Advanced Microcontroller Bus Architecture)
Memory (RAM)	128 MB RAM
Memory (Flash storage)	128 MB Integrated Flash ROM
Memory Expansion	microSD Card Socket
Operating System	Windows® Embedded CE 6.0 R2

Environmental Specs

Operating Temp	-20° to 50° C / -4° to 122° F
Storage Temp	-30° to 60° C / -30° to 140° F
Humidity	0% to 90% RH, non-condensing
Electrostatic Discharge	15kVDC through air; 8kVDC contact
Sealing	IP54; NEMA 12

Regulatory Specs

Certifications	FCC, CE
Environmental	RoHS, Pb-Free

Wireless Radio Specs

Radio	IEEE 802.11b/g
Frequency	2.4 GHz Range
Bitrates	802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps (auto-fallback)
Output Power	15 dBm (30 mW)
Receive Sensitivity	-90 dBm @ 1 Mbps, 8% PER
Security	None 64/128 Bit WEP WPA/WPA2 Personal (PSK) WPA/WPA2 Enterprise (EAP) 802.1X Authentication Supplicants

High-power Summit® Radio Specs

Radio	IEEE 802.11b/g
Frequency	2.4 GHz Range
Bitrates	802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps (auto-fallback)
Output Power	18 dBm (63 mW)
Receive Sensitivity	-96 dBm @ 1 Mbps
Security	None 64/128 Bit WEP WPA/WPA2 Personal (PSK) WPA/WPA2 Enterprise (EAP) 802.1X Authentication Supplicants

Bluetooth® Radio Specs

Radio	IEEE 802.15 (On-chip with standard wireless radio)
Frequency	2.4 GHz Range
Bitrates	802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps (auto-fallback)
Output Power	4 dBm (Class 2)
Receive Sensitivity	-84 dBm @ 1 Mbps, 0.1% BER

ACC-7225 Communications Cradle

USB Port Expansion	1 x USB Slave 2 x USB Host
Networking Expansion	10/100 Ethernet LAN
Battery Charging	1 x Spare Battery 1 x M7225 unit

Specifications are subject to change without notice.

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