M7225

Handheld Computer

AML
SENSIBLE SOLUTIONS

The M7225 is a richly featured, wireless handheld 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 charging options available and comes with or without a pistol grip handle.

Features / Benefits

Features	Benefits
Full alphanumeric keypad	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.
15.8 watt hour Li-Ion battery	Enables all-day operation without a battery swap or re-charge.
Weighs just 17.6 oz (500 grams) w/o handle	Minimizes fatigue, permitting all day use in scan-intensive applications.
Windows® CE 6.0	Latest embedded operating system from Microsoft©. Use standard Windows embedded software tools including Microsoft Embedded Visual C++ and Visual Studio to develop custom applications.
128MB RAM, 128MB ROM (microSD card for expansion)	More than enough memory for virtually any software application.
Full audio capability	Integrated amplified speaker and headphone/microphone jack. Dedicated high-power beeper for barcode scanner.
Numerous configurations available	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	500g / 17.6 oz (w/o optional handle)
Display	3.5" QVGA (320x240), 16-bit Color TFT LCD
Touchscreen	Integrated Resistive Touch Panel
Keypad	55-key alphanumeric
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	Standard Internal 802.11b/g radio with integrated Bluetooth; Optional high-power (63mW) Summit 802.11a/b/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 3.5mm jack; Integrated high-power scan engine beeper
Bar Code Scanning	Standard Range Laser; Optional Long Range Laser; Optional 2D Omni-Imager
User Feedback	OnScreen Scan Verification; Beeper/Speaker; 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
Software	Internet Explorer®; Remote Desktop; VT100/220, TN3270, TN5250 Emulation

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

Wireless Radio Specs

Radio	IEEE 802.11b/g
Frequency	2.4 GHz Range
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 802.11a/b/g
Frequency	2.4 GHz Range
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; Cisco Compatible Extensions (Version 4)

SUMMIT
DATA COMMUNICATIONS

Bluetooth® Radio Specs

Radio	IEEE 802.15 (On-chip with standard wireless radio)
Frequency	2.4 GHz Range
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

Regulatory Specs

Certifications	FCC, CE
Environmental	RoHS, Pb-Free