



Strong as a TANK! High performance industrial PDA with 1.8m drop pass and IP65.



Ergonomic Design for Intensive Scanning.

M3 T is an ergonomic and super rugged industrial PDA. Especially a scan button in front of the device is aimed at scanning intensive environments such as distribution and retail market area. With this enhanced functionality, it still have remarkable features for user environment, full-ruggedness of IP65 sealing rate and 1.8M drop test result, compare to similar sized devices make users rely on M3 T's accurate and normal performance.



Key Features



1D / 2D Scanner

Superior scanner / imager application provides real-time data capture and automatic data processing so that you can expect flexibility of work and cost-efficiency.

Marvell PXA-320 806 MHz Powerful CPU speed with "High-Tier" guarantees faster graphic process and memory access.



Powerful Processor

Maximum Data Capture



3.0M Pixels AF Camera High resolution and auto focused functionality capture clear images of product and/or documentation.

Extended Battery

Battery (Li-Ion 3.7V, 2,700mA / 4,800mA)

Extended battery is suitable for long shift duration. M3 T can be used even in a non-chargable environment with long last battery.

All Environment, Physical Strength



IP 65 Sealing, 1.8 m drop

M3 T is suitable to use in a tough environment; withstands drop from 1.8 meter (6 feet) and protects against dust and water.

Endurance for temperature M3 T can be operated within - 20°C ~ 60°C and its storage temperature is -30° C ~ 70° C.















Maximum Mobility

(802.11 a/b/g, Bluetooth) Wireless data transmission through Wi-Fi, Bluetooth and HSPA+ make your business easier and provide the maximum mobility.

Ergonomic



Ergonmic Design Ergonomically designed SCAN button on the front panel of M3 T makes your work easier and more convenient. Alos, gives superior grip and rugged feel.



M3 T Specification

PHYSICAL CHARACTERISTICS

Dimension

Standard 168.8 mm x 77 mm x 28 mm, 6.6" x 3.0" x 1.1"



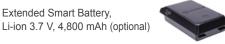
Weight (incl. battery) Standard 378 g, 13.3 oz.

Display Touch Panel Battery Main Battery

3.5" QVGA TFT LCD, 240 x 320 pixels Glass analog resistive touch



Standard Smart Battery, Li-ion 3.7 V, 2,700 mAh



Backup Battery Li-ion 3.7 V, 200 mAh (not user accessible) Notification Vibration and LEDs

PERFORMANCE CHARACTERISTICS

Core Processor

CPU	Marvell PXA-320 806 MHz		
OS	Microsoft [®] Windows Embedded CE 5.0		
Memory	RAM: 256 MB, ROM: 1 GB		
	External SD: MicroSD with SDHC (up to 32 GB)		
Interfaces	USB Host 1.1 / Client 1.1		
	Ethernet (via accessory)		
	RS232 Serial (via accessory)		
Battery Performance			
Standby	540 hours (standard), 960 hours (extended)		

WIRELESS RADIO CHARACTERISTICS Bluetooth Class II, v2.0 with EDR

GPS CHARACTERISTICS

Accuracy ¹	Position	10 m, 2D RMS
	Velocity	0.1 m/s
	Time	1µs synchronized to GPS time
Acquisition ¹	Cold Start	37 seconds
	Warm Start	33 seconds
	Hot Start	< 1 second
Velocity limi	ts: 515 m/s	s, 1000 knots
Altitude limits: 18,000 r		m, 60,000 ft.

WIRELESS LAN CHARACTERISTICS Bands IEEE 802.11 a/b/g or IEEE 802.11 b/g Chipset Broadcom BCM4318E Data Rate 802.11a (OFDM): 6, 9, 12, 18, 36, 48, 54 Mbps 802.11b (DSSS): 1, 2, 5.5, 11 Mbps 802.11g (OFDM): 6, 9, 12, 18, 24, 36, 48, 54 Mbps **Regulatory Domain** FCC (Americas, Asia², Mid East²) MIC (TELEC) (Japan) ETSI (Europe, Asia², Mid East², Africa) KC (KCC) (Korea) 2.4 GHz Frequency Bands FCC 2.4 to 2.473 GHz, ETSI 2.4 to 2.483 GHz MIC 2.4 to 2.495 GHz, KC 2 4 to 2 483 GHz 5 GHz Frequency Bands FCC 5.15 to 5.35 GHz, 5.47 to 5.725 GHz, 5.725 to 5.82 GHz ETSI 5.15 to 5.35 GHz. 5.47 to 5.725 GHz MIC 5.15 to 5.35 GHz KC 5.15 to 5.25 GHz, 5.47 to 5.725 GHz, 5.725 to 5.82 GHz 2.4 GHz Operating Channels FCC 11 (3 non overlapping) ETSI 13 (3 non overlapping) MIC 14 (4 non overlapping) 13 (3 non overlapping) KC 5 GHz Operating Channels 23 non overlapping 19 non overlapping FCC ETSI MIC 4 non overlapping KC 23 non overlapping Security Standards WEP, WPA, WPA2 Encryption WEP, TKIP, AES Encryption Key Provisioning: Static (40 and 128 bit length) Pre-shared (PSK) Dynamic 802.1X Extensible Authentication Protocal Types: EAP-FAST, EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, PEAP-TLS, LEAP Certification 802.11 a / b / g, WPA Enterprise, WPA2 Enterprise Wi-Fi Alliance **Cisco Compatible Extensions** CCXv4

USER ENVIRONMENT

Operating Temperature-20 °C ~ 60°C, -4 °F ~ 140 °FStoring Temperature-30 °C ~ 70°C, -22 °F ~ 158 °FHumidity93% non-condensingDrop Test1.8 m, 6 ft. (2 drops for each side)IP RatingIP65Electrostatic Discharge+/-8 kV air dischargeClockIntegrated real time clock (backup battery keeps the time info. while replacing the main battery)



M3 T Specification (contd.)

DATA CAPTURE CHARACTERISTICS

Light Source	650 nm visible laser	diode		
Scan Rate	100 scans/sec			
Decode Rate	100 decodes/sec			
Reading Angle	54°, effective 44°			
Pitch Angle	+/- 35°			
Skew Angle	+8° ~ +50°, -8° ~ -50)°		
Tilt Angle	+/- 20°			
Ambient fluores	4,000 lux max.			
Ambient white li	4,000 lux max.			
Ambient direct sun light rejection 8,000 lux max				
Laser Safety Cla	ass I laser product			
EMC EN 55022, EN 55024				



2D Imager³ Characteristics

Focal Point17.8 cm, 7"Image Sensor752 x 480 CMOS seonsorsMotion Tolerance10.2 cm, 4" per secondRotational Sensitivity360°Viewing Angle+/- 40°Ambient LightTotal darkness to 100,000 lux (full sunlight)Illumination LEDs626 nm +/- 30 nmAimingLEDs:526 nm +/- 30 nmLaser:650 nm +/- 10 nm



Camera CharacteristicsResolution3.2 M pixelFlashUser controllable LED flash

Auto focus

Focus

Certifications and Partners



Accessories

Extra Accessories specifically designed for M3T enhances the PDA's functionality and broaden its applicable area. Pistol Grip and Leather case may be purchased separately if necessary.

Cradles



<Single Slot Ethernet Cradle>

Leather Case

<Vehicle Cradle>

M3 T has various types of cradle for charging and DataSync. Besides the basic Single Slot Cradle, Single Slot Ethernet Cradle can be used for Ethernet and Vehicle Cradle is for charging M3 T device in the car.

Pistol Grip

Optional pistol grip is for scan-intensive environments. This handy equipment will improve your ergonomics and increase your satisfaction.





To be handy for carrying and protect M3 T from any circumstances, a leather case will be a good solution. Users can choose belt type or strap type with this optional accessory.

* Each extra accessory's manual can be downloaded at M3 Mobile technical support webpage. http://support.m3mobile.co.kr

³ Characteristics are based on the default option



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