

M₃ SMART

Ultra Light and Slim PDA
with Strong CORE and PERFORMANCE!



Smart Performance! Smart Design!

M3 SMART is the result of technological integration. All specifications such as CPU, ROM, Camera, Bluetooth, Battery and so on are upgraded to latest version and M3 SMART supports two types of operating system: Windows CE 6.0 and Windows Mobile 6.5.

Also, it even achieves IP54 sealing and 1.2M drop test with its super slim and light design which makes a perfect solution for every place you work at.



Key Features



Multi OS Support

Windows Mobile 6.5 and Windows Embedded CE 6.0 is available in M3 SMART. These latest operating system provides intuitive user interface.



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.

Maximum Data Capture



3.2M Pixels AF Camera

High resolution and auto focused functionality capture clear images of product and/or documentation.

Smart Battery



Battery (Li-Ion 3.7V 2,200mA / 4,400mA)

M3 SMART's smart battery provides accurate remaining battery capacity so that the user can efficiently plan the usage of the PDA. Also, its large capacity is suitable for long time shifts.

User Comfort



Multi-function Keypads

Multi-functional keys of QWERTY, AZERTY keypads are designed for versatile performance. As hot keys, these are going to make the direct access be possible and increase users' working speed.



AlphaNumeric (34 keys)



QWERTY (51 keys)



AZERTY (51 keys)

Sensors

Gyro sensor and Light sensor extends the applicable area of M3 SMART.

Powerful System and Core

Samsung ARM v7 Coretex-A8(S5PC100) 833MHz
Powerful CPU speed with "High-Tier" guarantees faster graphic process and memory access.



Maximum Mobility



Multi-mode Radio

(802.11 a/b/g, 3.8G HSPA+)

Wireless data transmission through Wi-Fi, Bluetooth and HSPA+ make your business easier and provide the maximum mobility.

All Environment



Slim & Light

M3 SMART is slim and light but rugged. It can be used for ticketing and/or asset management wherever the mobile device is needed.



Endurance for temperature

M3 SMART can be operated within -20°C ~ 60°C and its storage temperature is -30°C ~ 80°C.



M3 SMART Specification

PHYSICAL CHARACTERISTICS

Dimension

Standard 141.6 mm x 69 mm x 19.7 mm, 5.5" x 2.4" x 0.7"



M3 SMART
Weight: 222 g (7.8 oz.)

Weight (incl. battery)

Standard 222 g, 7.8 oz.

Display 2.8" QVGA TFT LCD, 240 x 320 pixels

Touch Panel Glass analog resistive touch

Battery

Main Battery



Standard Smart Battery,
Li-ion 3.7 V, 2,200 mAh

Extended Smart Battery,
Li-ion 3.7 V, 4,400 mAh (optional)



Backup Battery Li-ion 3.7 V, 150 mAh (not user accessible)

Notification Vibration and LEDs

Keypads AlphaNumeric, QWERTY, AZERTY

PERFORMANCE CHARACTERISTICS

Multi-Processor

CPU Samsung Cortex-A8(S5PC100) 833 MHz

Radio ARM 11 series

OS Microsoft® Windows Mobile® 6.5

Microsoft® Windows Embedded CE 6.0

Memory RAM: 256 MB, ROM: 512 MB (CE) 1 GB (WM)

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 330 hours (standard), 660 hours (extended)

Talk time 7 hours (standard), 14 hours (extended)

GPS CHARACTERISTICS

Assisted GPS

Accuracy¹ Position 2.5 m CEP

SBAS 2.0 m CEP

Acquisition¹ Cold Start 29 seconds

Warm Start 29 seconds

Hot Start < 1 second

Velocity limits: 515 m/s, 1000 knots

WIRELESS RADIO CHARACTERISTICS

WWAN

2G GSM / GPRS / EDGE: Quad band
(850 / 900 / 1800 / 1900 MHz)

3.8G (WM) UMTS / HSPA+: Five band
(800 / 850 / AWS / 1900 / 2100 MHz)

Bluetooth Class II, v2.0 with EDR (WM)
Class II, v2.1 with EDR (CE)

WIRELESS LAN CHARACTERISTICS

Bands IEEE 802.11 a/b/g

Chipset Atheros AR6002

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, 5.725 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) KC 13 (3 non overlapping)

5 GHz Operating Channels

FCC 23 non overlapping ETSI 19 non overlapping

MIC 8 non overlapping KC 8 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 Protocol Types:

EAP-FAST, EAP-TLS, EAP-TTLS, PEAP-GTC,

PEAP-MSCHAPv2, PEAP-TLS, LEAP

Certification

Wi-Fi Alliance 802.11 a / b / g, WPA Enterprise, WPA2 Enterprise

CCXv4 Cisco Compatible Extensions

USER ENVIRONMENT

Operating Temperature -20 °C ~ 60°C, -4 °F ~ 140 °F

Storing Temperature -30 °C ~ 80°C, -22 °F ~ 176 °F

Humidity 93% non-condensing

Drop Test 1.2 m , 4 ft. (2 drops for each side)

IP Rating IP54

Electrostatic Discharge +/-8 kV air discharge

Clock Integrated real time clock (backup battery keeps the time info. while replacing the main battery)

¹ All SV @ -130 dBm.

² Part of the region.



M3 SMART Specification (contd.)

DATA CAPTURE CHARACTERISTICS

1D Scanner³ 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 fluorescent light rejection	4,000 lux max.
Ambient white light rejection	4,000 lux max.
Ambient direct sun light rejection	8,000 lux max.
Laser Safety Class	IEC825, Class I laser product
EMC	EN 55022, EN 55024



1D Scanner



No Scanner version is also available.

2D Imager³ Characteristics

Focal Point	17.8 cm, 7"
Image Sensor	752 x 480 CMOS sensors
Motion Tolerance	10.2 cm, 4" per second
Rotational Sensitivity	360°
Viewing Angle	+/- 40°
Ambient Light	Total darkness to 100,000 lux (full sunlight)
Illumination LEDs	626 nm +/- 30 nm
Aiming	LEDs: 526 nm +/- 30 nm Laser: 650 nm +/- 10 nm



2D Scanner

Camera Characteristics

Resolution	3.2 M pixel
Flash	User controllable LED flash
Focus	Auto focus

GYRO SENSOR

Orientation	3-Axis orientation (XYZ)
Sample Rate	Max. 120 samples per second
Output Type	Digital Output (I ² C)
Max Acceleration	10,000 g (all axes, 100 μs)

LIGHT SENSOR

Light Detection	3-Axis orientation (XYZ)
Output Type	Digital Output (I ² C)
Features	-50 Hz / 60 Hz light noise reject function

Certifications and Partners



³ Characteristics are based on the default option.



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