MoGo Blank Slate™ Tablet ID8–BS–1000

User's Manual

7" Android Tablet and Smart Case for

Secure Financial Transactions

10/24/11

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Introduction:

Your MoGo Blank Slate™ is a complete, portable financial transaction solution built by combining a standard Android tablet computer with a shock absorbing, water-resistant "smart case" that not only protects the base tablet, but also adds a series of secure peripherals (magnetic card reader, front facing camera for bar code scanning, 3G/4G modules, etc.) to customize the device for specific enterprise level applications.

Blank Slate™ systems are typically supplied preconfigured for specific applications by the IT departments of the enterprises that are deploying them.

Getting Started:

Getting to know your MoGo Blank Slate™ ID8-BS-1000:

Main Controls:

Smart Case Peripherals:

Rear Facing Camera
(on back of case)

Speaker Ports

Magnetic Card Reader

Mini USB Charging
Port

Microphone Port

Charging the Battery:

Your device is powered by a rechargeable, standard Li-Ion battery. An AC Power Supply is included with the device, for charging the battery. Insert the micro USB connector on the charging cable into the port on the side of the Blank Slate™ case. Plug the power supply into an appropriate 110 to 240 AC source.

Note: The battery comes partially charged. You must fully charge the battery before using your device for the first time. After the first charge, you can use the device while charging.

Warning!: Use only approved charging devices. Approved accessories are designed to maximize battery life. Using other accessories may invalidate your warranty and may cause damage.

Battery Indicator:

The Battery icon in the Status Bar shows battery power level. When battery power is 15% or less, your device will prompt you to charge the battery. If you continue to operate the device without charging, the device will power off.

Turning On the Device:

Power Button

Press and hold the power button (located on the left side of the top edge of the device) for approximately 3 seconds to turn on the unit. Once the system boots, the system home screen will be presented with icons for the installed software applications. In some cases, the devices will be configured to launch directly into a custom software application for a particular enterprise.

Standby (Sleep) Mode:

With the system running, a quick press of the power button will blank the system display and put the system into "Standby Mode". A second quick press of the power button will restore the system to full operation.

Turning Off the Device:

Press and hold the power button for approximately 3 seconds. A pop-up window will appear allowing the user to select full power down, standby, or airplane modes.

Main Button Functionality:

 Menu Key: Press to display options for current screen.

 Home Key: Press to display Home Screen. Press and hold to display recent applications or to launch Task Manager (if available).

 Back Key: Press to return to the previous screen or option.

 Search Key: Press to launch Google Search (if available), to search your device or the web.

<u>Using the Touchscreen:</u>

Swiping:

Touch the screen and slide your finger to scroll lists, navigate web pages, move between pages, etc.

Multi-Touch:

To zoom in or out of a picture, web page or other content, touch the screen with two fingers at the same time and then drag them together (to zoom in) or move them apart (to zoom out).

Zoom Out

Zoom In

Moving Objects:

To move an object (such as an icon on the Home screen), touch and hold the object – then drag it to the new desired position.

FCC Compliance:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help**.**

FCC RF Radiation Exposure Statement:

1. This transmitter has been demonstrated to meet co-location compliance requirements with transmitter FCC ID: ZUJ-MTP1122. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

2. Blank Slate complies with FCC RF radiation exposure limits set forth for an uncontrolled environment and meets the FCC RF Exposure Guidelines in Supplement C of OET65. This device has been tested in typical lap held operations with the back side of the device contacted directly to the human body. To maintain compliance with FCC RF exposure compliance requirements, avoid direct contact to the transmitting antenna during transmitting. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Notice:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution:

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected o have the capability to access information in that form.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

Device Specifications:

Characteristic	Comments
Form Factor	Hand-held
Size (Smart Case)	(L) 205mm x (W) 121.2mm x (T) 11.8mm
Weight (Smart Case + Smart Pad)	< 1 kg
Operating System	Android2.3 (Modified for Security) with MDM support.
Processor / Chipset	Samsung S5PV210-1GHZ ARM Cortex-A8
Display	7" (1024*600) color TFT-LCD with capacitance touch screen.
Storage	2/4/8/16/32 GB internal eMMC flash configurations (2 GB standard)
Wireless connectivity	Wi-Fi: 802.11b/g/n +Bluetooth:2.0 +EDR module build in
Audio output interface	O/P: 2 speakers(1w)
Others Interface	USB Device USB HOST MICROSD card slot

Controls	-Power button/ Volume up/Volume down button -Home button/ /Return button /Menu button/Search button for Touch Panel (capacitance T/P)
Battery Life	Standby: 8 hours (min.) Working: depends on peripherals and software in use
Battery Charge	1. Battery charge current: max. 1.4 A 2. Battery charge timing < 4 hours

Hardware Specifications:

Feature	Comments
Processor / Chipset	Samsung S5PV210-1GHZ
DRAM	512MB mDDR
TFT-LCD	7"TFT panel 1024x600
Storage	internal 2GB flash (option 4GB/8GB/16GB)
Wireless Module	Wi-Fi: 802.11b/g/n module build in +Bluetooth:2.0 +EDR module build in
Stereo Speakers	1W x2
1 Internal MIC	For audio recode
Others Interface	USB Device USB HOST MICROSD card slot
MICROSD card slot	MAX Support 32G MICROSD card
G sensor / COMPASS sensor	Build-in sensor
Control	Home button/ Power button/ Return button/Volume up button/ Volume down button/reset button Touch Panel
LED Indicator	Red LED: Charge status Green LED: Power on status
Li-polymer battery pack	3800mAh, 3.7V

Software Specifications:

Feature	Comments
Software Environment	
Embedded OS	Android 2.3
Boot Time	
Start-Up	<= 30s
Audio Subsystem	
Audio Channel(s)	Stereo

Playing	16 bit, 44KHz
Microphone record	
Loudspeaker support	Stereo
Audio Output support	3.5mm earphone jack
Multimedia	
Audio codec	Encode: AMR-NB Decode: AACLC/LTP, AAC+, Enhanced AAC+ AMR-NB, AMR-WB, MP3 MIDI, Ogg vorbis, PCM/WAVE
Video Codec	1080p MFC (Multi Format Codec) 30fps H.264 codec (BP/MP/HP) MPEG-4 codec (SP/ASP) H.263 codec (P3 / MPEG-4 ERT) MPEG2 decode (MP) Divx / Xvid decode, VC-1 decode(Simple/Main/Advanced profile)
Media player files	3GPP(.3gp) WMV(.wmv) MPEG-4 (.mp4,m4a) MP3(.mp3) Ogg(.ogg) WAVE(.wav) JPEG (.jpg) GIF(.gif) PNG(.png) BMP(.bmp)

Photo/images	Encode:
	  JPEG
	Decode:
	  JPEG,
	  GIF
	  PNG
	  BMP

Supported Protocals	FeliCa ISO/IEC 14443A/Mifare,

Performance

USB Performance

Feature	Comment
Mini-type plug	
USB 2.0 (Low Speed 1.5 Mbps, Full Speed 12Mbps, High Speed 480Mbps	

SD Performance/Protocols

Feature	Comment
SD v2.0 Class 2、4、6	

Wi-Fi Performance/Protocols

Feature	Comment
802.11 b/g/n	
WEP Security	
WPA, WPA2 Security	
DHCP	
TFTP/HTTP	
NTP	

Smartcase Peripherals

Feature	Comment
Magnetic Card Reader	PCI PED V2.1
2 Megapixel Camera Module	1-D and 2-D Bar Code Reader
Mini USB Port	Data sync and Battery Charging
3G/4G modem (optional)	Data and SMS (no voice)
NFC Reader	ISO/IEC 14443B (optional)
Supported Protocols	FeliCa, ISO/IEC 14443A/Mifare,

Reliability Requirements

No	Test Item	Test Condition(s)	Functional Test(s)	Frequency	L/T (Day)	Test Q'ty
1	Unit Drop	Drop from (100 cm) to concrete . Total 6 drops each unit	VI, FT	NA	Pre / Post	1
2	Random Operational Vibration	1.1 Grms, truck/air spectrum, with breaking points of: (2 Hz, .0001 G^2/Hz), (4 Hz, .01 G^2/Hz), (100 Hz, .01 G^2/Hz), (200 Hz, .001 G^2/Hz)	VI, FT	120 min per axis	Pre / Post	2
3	Thermal Shock	-20°C to 60°C, 20°C/min ramp, 25 minute hot dwell, 15 minute cold dwell	VI, FT	50 cycles	Pre / Post	3
4	TH Extremes, Non-Operating	Low: -20°C, 24 hours; High: 60°C/65%, 72 hours	VI, FT	Low:24 hours High:72 hours	Pre / Post	6

5	TH Extremes, Operating	Low: -10°C, 24 hours, with bias applied; High: 50°C/80%, 72 hours, with bias applied	VI, FT	Low:24 hours High:72 hours	Pre / Post	6
6	Temperature/Humidity/ Durability, Operating	60°C/90% RH, with Bias applied.	VI, FT	96 hours	Pre / Post	5
7	Paint/Logo Abrasion	350 g load, Taber CS-10F abrader, 60 cycles/min	VI	Logo: 60 cycles Paint: 35 cycles	Pre / Post	1
8	Chemical Withstand	12 chemicals, 2 per unit, room temperature exposure followed by 60°C/65% RH	VI	12 hours RT 24 hours Elevated	Pre, Post	4
9	Rain test	Portable usage classification IPX4	VI, FT	10 min	Pre / Post	1
10	Dust test	Classification IP5X 2kg / m3 8 hours duration	VI, FT	8 hours	Pre / Post	1
11	UV Stability	Irradiance level of 2806 W-h/m^2; ASTM D4674	Color Shift	Approximately 300 hours	0, 100, 200, 300 hours	20
12	Weight Bearing Test	Place a static weight of 25kg on the unit	VI, FT	10 seconds	Pre, Post	1
13	Power button	Manual Press the button and release as 1 cycle≤ 10 cycles/min.	VI, FT	10000 cycles	Pre / Post	2
14	Volume button(+)/(-)	Manual Press the button and release as 1 cycle≤ 10 cycles/min.	VI, FT	10000 cycles	Pre / Post	2
15	Touch panel(all button)	Manual Press the button and release as 1 cycle≤ 10 cycles/min	VI, FT	1000000 cycles each	Pre / Post	3
16	Hand strap (woven with stretch)	Insertion & extraction as 1 cycle, total 2000 cycles	2000 cycles	VI, FT	Pre / Post	2
16	Micro USB	Insertion & extraction as 1 cycle, total 4000 cycles	VI, FT	4000 cycles	Pre / Post	2

Abbreviation	Test Description
FTF	Button Force to Fire
FT	Functional Test
IF	Insertion/Extraction Force
VI	Visual Inspection