MM10 Operating System update (20120627)

I. <u>PC requirement</u>

System requirement:WIN7/32 bit operating system(figure 1.1). In order to check your PC configuration press:

- 'Start'
- Right click on 'Computer'
- 'Properties'

View basic information	about your computer	0				
Windows 7 Ultimate						
Convictor © 2000 Misson	the Companying All index and a					
Copyright © 2009 Wilcrose	n Corporation. All rights reserved.					
SEIVICE PACK I						
System						
Manufacturer:	Lenovo					
Model:	Lenovo Win7 PC					
Rating:	4.7 Your Windows Experience Index needs to be refreshed	lenovo				
Processor:	Intel(R) Core(TM) i3-2350M CPU @ 2.30 GHz 2.30 GHz					
Installed memory (RAM):	4.00 GB (3.35 GB usable)					
System type:	32-bit Operating System					
Pen and Touch:	No Pen or Touch Input is available for this Display					
Lenovo support						
Website:	Online support					
Computer name, domain, and	workgroup settings					
Computer name:	lenovo-PC	🚱 Change settings				
Full computer name:	lenovo-PC					
Computer description:						
Workgroup:	WORKGROUP					
Windows activation						

figure1.1

II. OS Update Tool installation

In order to update MM10 Operating System, Hisilicon toll (IDT) has to be installed on the PC. The tool can be found on <u>ftp://ftp.ashtech.com/Mobile%20Mapping/MobileMapper%2010/</u> in the Operating System/ OS update tool section

IDT software tool installation:

Step 1: Double click IDT.exe, turn into installation as figure 2.1:



figure2.1



InstallShield Wizard
Start Copying Files Review settings before copying files.
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
A
-
٨
InstallShield
< Back Next > Cancel

figure2.2

Step 3: Select directory where you want to install the software, here we select 'C:\Program Files\HiSilicon\IDT', as figure 2.3:

InstallShield Wizard	X
Choose Destination Location Select folder where Setup will install files.	
Setup will install IDT in the following folder.	
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.	:
Destination Folder C:\Program Files\HiSilicon\IDT Browse	
< Back Next > C	ancel



Step 4: after finished, click 'Finish' as figure 2.4.

InstallShield Wizard	
	InstallShield Wizard Complete Setup has finished installing IDT on your computer.
	< Back Finish Cancel

figure2.4

III. Install USB driver

If the PC is used for upgrade with Hisilicon for the first time, USD driver is required. If the USB driver has already been installed, please go to Part IV directly: install OS.

Step 1: turn the device into download mode.Press F1 & F2, and at the same time press Power (figure3.1)The device is switched on in downloading mode(figure3.2)



figure 3.1 F1+F2 and at the same time Power



figure3.2 Downloading icon

Step 2: Open PC start menu, press (Start)——>(Control Panel) ——>(System and Security) — —>(System) ——>(Device Manager).

Process as following(3.3-3.6):



figure3.3



figure3.4



figure3.5

📲 Device Manager	
File Action View Help	
Elenovo-PC Biometric Devices Eiometric Devices Disk drives Display adapters Disk drives Display adapters Disk drives Display adapters Disk drives Disk drives	

figure3.6

Step 3: connect receiver and PC with USB cable, there will be below hint in 'Device Manager'(figure 3.7):



figure3.7

Step 4: right click (Unknown device) under (Other Device), select (Update Device Software), as figure 3.8, select Browse my computer for driver software:

File Action View Help		
A Biometric Devices A Computer Disk drives	🕞 📱 Update Driver Software - Unknown Device	×
Gisplay adapters	How do you want to search for driver software?	
 ▷-3 Imaging devices ▷-4 Keyboards ▷-8 Monitors ▷ Monitors ▷ A honitors ▷ A honitors ▷ A honitors 	Search automatically for updated driver software Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.	
Image: Constraint of the series of the s	Browse my computer for driver software Locate and install driver software manually.	
Intel(R) 6 Series/C200 Series Chipset USB Composite Device USB Root Hub USB Root Hub		Cancel

figure3.8

Step 5: click 'Browse', find 'C:\Program Files\HiSilicon\IDT\ USB generic serial' directory where IDT tool is installed, as figure3.9:



figure3.9

Step 6: click 'next', select 'Install this driver software anyway', as figure 3.10:

File Action View Help Imagin Imagin Imagin Imagin Imagin Imagin Imagin Imagin Imagin Imagin <th>×</th>	×
Incomparing the second sec	x
	×
Imagin	
Windows can't verify the publisher of this driver software Disk dri Disk driver software To a bould check your manufacturer's website for updated driver software for your device. Don't install this driver software anyway	
> → Display > → Display > → IDE ATA > → IDE ATA > → IDE ATA > → Monito > → Monito Install this driver software annoway	
General DEATA DEATA DEATA Monite Monite Install this driver software You should check your manufacturer's website for updated driver software for your device. Install this driver software anyway	
Monito	
Only install driver software obtained from your manufacturer's website or Only install driver software obtained from your computer or steal Driverses	
Sound, South See details	
↓ Universämsenan bus controllers Generic USB Hub Generic USB Hub Jintel(R) 6 Series/C200 Series Chipset Jintel(R) 6 Series/C200 Series Chipset USB Composite Device USB Root Hub UISB Root Hub	

figure3.10

Step 7: after finished, there will be figure 3.11:



figure3.11

Step 8: USB driver is installed, it appears in the list as figure 3.12:



figure3.12

IV. OS update

Step 1: turn the device into download mode.

Press F1 & F2, and at the same time press Power to switch on the device (figure4.1), there will be Downloading icon (figure4.2), it's downloading mode.



figure4.1 F1+F2 & Power key



Step 2: Run IDT tool (Hisilicon), as figure 4.3:



figure4.3 Step 3: Click 'View->ImageDownload', as figure 4.4:



figure4.4

Step 4: click 'Config' tool icon, as shown in figure 4.5:

🤪 IDT - HISIK3_E751	LB1_GPSBANDROMETER.	bin [111.117.113.115]			- • ×
Eile View Ope					4 Þ ↓ x
NO. COM	Indicator	Progress	Time	Status	Result
1	۲	0%	00:00:00		
2	•	0%	00:00:00		
3	•	0%	00:00:00		
4	•	Password	X		
5	۲	Password	Change Password		
6	۲				
7	•	OK	Cancel		
8	•	U~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	00:00:00		
Ready		Ц	CENSE: 0 版本: 第	二代加密工具 Total: 1	Error: 0 CAP NUM SCRL

figure4.5

Step 5: input password 'hisilicon', and click 'OK', as figure 4.6:

😔 IDT - HISIK3_E75	181_GPSBANDROMETER.bin [111.117.113.115]	— — X
Eile View Op		
😔 ImageDowr	nloaRS(NXP5209)) ×	4 Þ 🗸 X
NO. COM 1 2 3 4 5 6 7	Indicator Conig	Result
8	C AP+Modem VenfyVer Image File: volDesktop/HISIK3_E751B1_GPSBANDROMETER.bm OK Cancel	
Ready	LICENSE-0 版本 第二代加密工具 Tr	otal: 0 Error: 0 CAP NUM SCRL

figure4.6

Step 6: click '...' button after (Image File), select .bin file. Select: DownloadMode: USB DownloadType: AP Misc: do not check

Step 7: click 'OK', as figure 4.7:

😔 IDT	- HISIK3_E751B1_GPSE	BANDROMETER	Lbin [111.117.113.115]			- • X
Eile Eile	<u>V</u> iew <u>O</u> peration	<u>W</u> indow <u>H</u> el	p			
U	HISILIC] 🗖 🏢 🚍 📀	÷		
	ImageDownloaRS(I	NXP5209)) ×	<u> </u>			4 ▷ ↓ ×
NO.	СОМ	Indicator	Progress	Time	Status	Result
1		•	0%	00:00:00	Checking the phone	
2		•	0%	00:00:00	Checking the phone	
3		٠	0%	00:00:00	Checking the phone	
4		٠	0%	00:00:00	Checking the phone	
5		٠	0%	00:00:00	Checking the phone	
6		٠	0%	00:00:00	Checking the phone.	
7		•	0%	00:00:00	Checking the phone.	
8		•	0%	00:00:00	Checking the phone.	
Ready			LICENSE: 0	版本: 第	二代加密工具 Total: 0 Error: 0 CAP	NUM SCRL

figure4.7

Step 8: connect device and PC with USB cable, start update, as figure 4.8: Remark:

1. There should be enough power in the battery

2.Do not move the device during the update

😔 IDT	- HISIK3_E751B1_GPS	BANDROMETER	bin [111.117.113.115]				. 🗆	x
Eile	<u>V</u> iew <u>O</u> peration	<u>W</u> indow <u>H</u> el	0					
Q	HISILIC			?				
	ImageDownloaRS	(NXP5209)) ×					٩	Þ - ×
NO.	СОМ	Indicator	Progress	Time	Status		Result	
1	(V)COM3	•	3%	00:00:16	Writing the flash			
2		٠	0%	00:00:00	Checking the phone			
3		•	0%	00:00:00	Checking the phone			
4		•	0%	00:00:00	Checking the phone.			
5		٠	0%	00:00:00	Checking the phone			
6		٠	0%	00:00:00	Checking the phone			
7		•	0%	00:00:00	Checking the phone			
8		•	0%	00:00:00	Checking the phone			
Ready			LICENSE: 0	版本: 貧	第二代加密工具 Total: 0	Error: 0 CAP	NUM SC	CRL

figure4.8

Step 9: update finished, as figure 4.9:

😝 IDT	- HISIK3_E751B1_GPSE	BANDROMETER	.bin [111.117.113.115]				- 🗆 X	
Eile	<u>V</u> iew <u>O</u> peration	<u>W</u> indow <u>H</u> el	p					
U	HISILIC							
	✓ ImageDownloaRS(NXP5209)) × ×							
NO.	COM	Indicator	Progress	Time	Status		Result	
1		•	100%	00:04:0	08 Checking the	phone	SUCCESS	
2		•	0%	00:00:0	00 Checking the	phone		
3		٠	0%	00:00:	00 Checking the	phone		
4		٠	0%	00:00:	00 Checking the	phone.		
5		٠	0%	00:00:	00 Checking the	phone		
6		٠	0%	00:00:	00 Checking the	phone		
7		٠	0%	00:00:	00 Checking the	phone		
8		٠	0%	00:00:	00 Checking the	phone		
, Ready				LICENSE: 0	版本: 第二代加密工具	Total: 1 Error: 0 CAP	NUM SCRL	

figure4.9

Step 10: generally the device will reboot automatically. If not, remove the battery and restart the device.

V. Possibility to upgrade several receivers at the same time

It is possible with the same IDT (Hisilicon) software to upgrade up to 8 receivers simultaneously.

You have to use a USB hub . For example: Newlink 10 Port USB 2.0 Hub





Step1 :

- Connect power cable -1
- Connect USB cable to on which Hisilicon tool is installed -2
- Connect the 8 USB cables

Step2 :

Run Hisilicon in the same way as describbed previously, in IV step2 And upload the required OS bin file

ND1 - 65-0513-53-en-keypad.bin [1.0.0.1310/20]	
Eile <u>V</u> iew <u>O</u> peration <u>W</u> indow <u>H</u> elp	
C HISILICON 🔽 🔲 🎬 🦳 🖓	
NO. COM Indicator Progress Result	
1 0%	
2 0% Password X	
3 0% Password ***** Change Password	
4 0%	
OK Cancel Password : hisilicor	
, Ready Computer name	

Step3:

Configure the 8 receivers for upload:

Insert a battery and switch on in the upload mode (Press (Q), C) and power simultaneously. As described previously in IV Step1







Step4:

Connect one by one all the USB cables to the receivers and the upload will start automatically



		and the second se					رجاري			
Ek	Yew Operatio	n <u>Window</u> Hel	p							
4	HISIL	ICON		1779 F	2					
2	-									
1										
NO.	COM	Indicator	Progress		Time	Ratus	Repuit			
1	(V)COMH	۲		\$7%	00:01:37	Writing the Rash				
2	(V)COM10	٠		0%	00.00.06	Downloading the invage(PLASH).				
3		۲		100%	00:04:19	Chedung the phone	SUCCESS			
4	(V)COM6			47%	00:01:32	Writing the flash				
5	(V)COM7	•		30%	00:01:22	Writing the flash				
6	(V)COM8	•		28%	00:01:14	Downloading the image(PLASH)				
7	(V)COM9	•		1%	00:00:14	Downloading the image(PLASH)				
8				0%	00:00:00	Checking the phone.				



Then follow information on display