(JMicron Technology Corporation

USER MANUAL

Mass Production Tool For JM2033x & JMS5xx

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Revision History

Revision	Effective		Description of Revision	Author
Number	Date	Reference	Description of the Change	Author
0.95	24-06-2006		Initial release.	Jade
1.00	05-02-2007	0.95	Add the Firmware update support of v1.08	Jade
1.02	09-08-2007	1.00	Modify the Restriction Notes and Manual setting screenshot	Jade
1.03	12-10-2007	1.02	JBOD case and some features	Jade
1.04	21-07-2008	1.03	Add update and modifications.	Jade
1.05	19-08-2008	1.04	INI file and log file explanations	Jade
1.06	29-07-2009	1.05	Add software update	wei
1.07	01-04-2010	1.06	Update INI setting	wei
1.08	31-08-2010	1.07	Add software update and modifications	wei
1.09	27-10-2010	1.08	Add software update and modifications	wei
1.10	17-01-2011	1.09	Modify for string definitions for JMS539	wei
1.20	18-03-2014	1.10	Update INI setting and Add JMS567/61/62 series INI setting.	ADplus
1.21	19-05-2014	1.20	Add JMS567 INI setting.(Refer to spec. 0.03)	ADplus
1.22	20-05-2014	1.21	Modify some item description.	ADplus
1.23	24-07-2014	1.22	Modify JMS567 INI setting.(Most will come from Fw bin file.)	ADplus
1.24	01-10-2014	1.23	For JMS578, modify EnMultiSec item's description on INI setting.	Wu
1.25	03-12-2014	1.24	Added CLONE product setting description. Added description for disabled functions.	Shone
1.26	25-12-2014	1.25	Modify some items description.	ADplus
1.27	28-05-2015	1.26	Added JMS578 and JMS561/2/5/1U attention item. Modified EnMultiSec description at EEPROM section.	ADplus
1.28	01-12-2015	1.27	Update the manual content based on MPTool v1_16_14_30.	ADplus

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Revision	Effective		Description of Revision	Author
Number	Date	Reference	Description of the Change	Author
			- Updated old figure to newer.	
			- Modified INI file items description.	
			- Added INI file items and description.	
			- Added Log file items and description.	
			Update the manual content based on MPTool	
			v1_16_14_36	
1.29	03-06-2016	1.28	- Added JMS576.	Vicky
			- Added INI file items EnSNfromHDDSN	
			and description.	
			Added Barcode feature description.	
1.30	05-06-2017	1.29	Added Type-C EPP control feature description.	ADplus
			Added customize capacity check feature description.	

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1 Introduction

This manual documents how to use the Mass Production Tool, also called MP tool to produce USB devices of JMicron's chips.

JMicron's chips use default JMicron Vender ID, Product ID, Manufacture String, Product String and Serial Number String. These values will be queried by the O.S. and show the information while PnP or at the Device Manager. Also, most of cases, the USB devices contain a factory HDD. If the customers want their specific values and need to partition, format the HDD for end users in advance. It is not convenient and correct for customers to operate manually one piece by one piece, even if thousands.

MP tool not only provides easier ways to update user strings, partition, format and read/write test of a new device by a simple user interface, but also supports multi-port to speed the quantity of output.

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2 Features

- Support JMicron 2033X/20329/205X9 all series bridge chips
- Support JMicron JMS539A/539B/551 series bridge chips
- Support JMicron JMS566/7/8 series bridge chips.
- Support JMicron JMS561/2/5/1U series bridge chips.
- Support JMicron JMS577/8/9 series bridge chips.
- Support JMicron JMS576 series bridge chips.
- Support the Microsoft Win2000 later.
- Support up to 4 USB Port devices.
- Support both USB2.0 and 3.0 interfaces.
- Support to show the disk device capacity information.
- Support to partition the HDD into a single partition and do quick format if possible.
- Support NTFS and FAT32 format more than 32GB. exFAT format only above Vista sp1 or later.
- Support copy files into formatted disks.
- Support the disk label setting.
- Support read/write test after the disk be formatted.
- Support read/write speed check.
- Support the 9346/24C0X EEPROM update.
- Support the Firmware update.
- Support EEPROM strings check.
- Support disk capacity check.
- Support disk free space check.
- Support all devices safely remove after done.

3 Restrictions

- Cannot interleave JM20316/20336 with JM20335/7/8/9 chips.
- Not support Win98/ME or older.
- Only for USB to one Disk (JM20316/20336), and no JBOD.
- Not support devices on external HUB.
- Firmware version will be really updated after device restart.
- Need administrator privilege under Windows Vista.7.8.10 or later.
- Close "Auto Run" to increase stability.

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4 Included Files

- JMMassProd.exe : Main program file
- JMMassProd.ini : Setting file
- test.bin : R/W test pattern file

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5 Application Usage

5.1 Launch MP Tool

JMicron 2033	3x M.P. Tool v1.	16.14.29													x
Load INI Save INI Capacity Check Don't Care T FreeSpaceCheck Don't Care	Execution Partition Volume Lat Volume Lat Volume Lat Volume Lat Volume Lat Volume Lat Volume Lat Volume Lat Volume Lat Partition Firmate USB 3.0 CP	Setting For Clone Firm FAT32 Just Disk Jpdate EEPROM reck pdate Firmware C File C:\Users\adpl Folder Compare	ware Update Verify heck uschen/Desktop/Pv V Advance Comp	EEPF Type 3 Standby /\\578\JMS578_S are	VID TE PID 05 Timer(Min.) 3 TD_v00.01.00 00	1 g 52D H 578 M USB I	IDD.String anuf.String Prod.String S/N String	JMicron JMicron External DB1234	Tech Disk 3.0 5678A2			p to HDD String to Increase J Micron			
◆ Port 1 ◆ Port 2 ◆ Port 3 ◆ Port 3 ◆ Port 5 ◆ Port 6 ◆ Port 7	Src. Dir. C:\L Port Con. 1 2 3 4 5 6	Jsers\adpluschen\De	sktop\book\specific	ation\SPC-4 Capacity	Des	t. Dir.	U3.0	F/W	EEPR	Parti	Format	R/W Test	S/W	F/C	
← Port 8 ← Port 9 ← Port 10 ← Port 11 ← Port 12 ← Port 12 ← Port 13 ← Port 14 ← Port 15 ← Port 16	7 8 9 10 11 12 13 14 YES 15	152D/0579/1	52D00579000	0 MB	InCode										
Refresh	START	Safe Remove	Close	USB	2.0		0%	6		Pass/T	otal Rese	et			~

Figure 1 Launch MP Tool

Launch MP tool, and you will see as Figure 1. With default setting, user can't modify anything; it is tend to protect any mistake from online operators.



5.2 RD version to modify default setting

JMicron 2033	x M.P. Tool v1.1	6.14.29													×
Load INI Save INI Capacity Check Don't Care	Execution S Partition Format Volume Labe R/WTest EEPROM U USB 3.0 Cho	Setting For Clone Firmw FAT32 et UsbDisk pdate EEPROM eck	vare Update Verify	EEPF Type 3 Standby	COM Settin VID 15 PID 05 Timer(Min.) 3	19 52D H 578 M USB I	IDD.String anuf.String Prod.String S/N String	JMicron JMicron External DB1234	Tech Disk 3.0 5678A2		Ma	p to HDD String to Increase			
RD Version	Src. Dir. C:\U:	date Firmware Li File C:\Users\adplu ▼ Folder Compare sers\adpluschen\Des	ieck ischen\Desktop\Fw ▼ Advance Compa ktop\book\specifica	(\578\JMS578_S re tion\SPC-4	TD_v00.01.00	1.03.bin t. Dir.						JMicron			
	Port Con. 1 2 3 4 5 6 7 8 9 10 11 12 13 	VID / PIE)/SN	Capacity	FWVer	Verify	U3.0	F/W	EEPR	Parti	Format	R/W Test	<u>s</u> ,w	F/C	
Port 15	14 YES 15 16	152D/0579/15	2D00579000	0 MB	InCode					Devel					•
Refresh	START	afe Remove	Close	USB	2.0		0%	5		Pass/1	Rese	et			

Figure 2 Check "RD Version"

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9 Jivlicron 2033	CIVI.P. 1001VI.1	16.14.29											
Load INI Save INI Capacity Check Don't Care - FreeSpaceCheck Don't Care	Execution S Partition Partition Volume Lab RAWTest EEPROM U USB 3.0 Ch	Setting For Clone Firmware Update FAT32 Justo EEPROM Verify eck	EEPRO	M Setting VID 152D PID 0578 ner(Min.) 3	HDD.String Manuf.String USB Prod.String S/N String	JMicron JMicron External I DB12345	Tech Disk 3.0 5678A2	1		ap to HDD String uto Increase			
✓ RD Version	Load F/W SW Copy Src. Dir. C:\U	File C:\Users\adpluschen\Desktop\P\ Folder Compare II Advance Comp sers\adpluschen\Desktop\book\specific	w\578\JMS578_STD are ation\SPC-4 Please Input 1	_v00.01.00.03.b 		x	_			JMicror			
• Port 1 • Port 2 • Port 3 • Port 3 • Port 5 • Port 6 • Port 7 • Port 7 • Port 8 • Port 9 • Port 10 • Port 12 • Port 13 • Port 14 • Port 14	Port Con. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 YES 15 5	VID / PID / SN	0 MB	OK	Cancel		EEPR	Parti	Format	R/W Test	S/W	F/C	
Refresh	START S	Safe Remove Close	USB 2	2.0	0%	5		Pass/T	otal Res	et			- -

Figure 3 Input the password to enable modify

Since customers need to modify the setting to meet what they really need. After checking the "RD Version", a password dialog will show out, and the default password is "**jmicron**". This authentication process enables the operations selection and EEPROM, FW modifications, etc.

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5.3 Show device information

	Execution	Setting		EEP	30M Settin	a								
Load INI Save INI Capacity Check Don't Care - reeSpaceCheck	Partition Partition Format Volume La R/WTest EEPROM USB 3.0 C	For Clone Firm FAT32 V bel UsbDisk Update EEPRON heck	ware Update	Type Standby	VID 15 PID 05 Timer(Min.) 3	52D H 578 M USB	HDD.String anuf.String Prod.String S/N String	JMicron JMicron External DB1234	Tech Disk 3.0 5678A2		Ma	p to HDD String to Increase		
	Firmware L	Jpdate 🔲 Firmware 0	Check				_							
RD Version	Load F/W	/ File C:\Users\adp	luschen\Desktop\l	FW\578\JMS578_9	STD_v00.01.00	.03.bin						JMicron		
	- SW Conv	Eolder Compare	✓ Advance Com	nare										
	Ste Dit DV	Users\adpluschen\De	sktop/book/specif	ication\SPC-4	Des	t Dir					-			
	old. Dill. John				200									
😽 Port 1 🔺	Port Con.	VID / PI	D/SN	Capacity	FWVer	Verify	U3.0	F/W	EEPR	Parti	Format	R/W Test	S/W	F/C
🗢 Port 2	1													
- Port 3	2													
Port 4	3													
A Port 6	5													
🗢 Port 7 _	6													
🗢 Port 8	7													
🗢 Port 9	8													
revenue Port 10	10													
Port II	11													
	12													
🗢 Port 14	13	1505 10530 11		0.40	10.1									
Pun 15	14 YES	152D/0579/1	52000579000	UMB	InCode									
	16													
- Port 16	A 11													
Port16	1.7									Pass/T	otal			
Port 16	START	Safe Remove	Close	USB	2.0					171	Rese	et		

Figure 4 select the port connected, then double click it

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🖗 JMicron 2033x M.P. Tool v1.16.14.29	
Execution Setting	
Load INI Image: Partition For Clone Firmware Update Type 3 minutes HDD.String JMicron Tech I Save INI Image: Partition FAT32 minutes PilD D578 Manuf.String JMicron Image: Partition Image: Partitan Image:	Map to HDD String Auto Increase
FreeSpaceCheck 🗆 USB 3.0 Check	
Don't Care Firmware Update Fir Device Information RD Version Load F/W File C.Uu	JMicron
Str. Dir. C:\Users\adplusc Manufacture String JMicron Firmware Ver. Internal code	
Port 1 Port Con. V USB Product String USB Mass Storage Flash Type MAIC/KH Q Port 1	nat R/WTest S/W F/C ^
Image: Construction of the second	
•• Port 13 13 •• Port 13 14 •• Port 15 •• Port 15 •• Port 15 •• Port 16 •• Port 17 •• Port 17 •• Port 18 •• Port 17 •• Port 17 •• Port 18 •• Port 18 •• Port 16 •• Port 17 •• Port 18 •• Port 18 •• Port 16 •• Port 17 •• Port 18 •• Port 16 •• Port 17 •• Port 17 •• Port 18 •• Port 17 •• Port 18 •• Port 1	Reset
0%	

Figure 5 show the detail information of devices

Select and double click the USB connection icon as the red rectangle, then select chip information will show out. It includes HDD model number < chip type < Drive letter < FW version < HDD capability < flash type < VID/PID...etc.

5.4 MP Tool customize setting

- Load INI & Save INI : Read a defined INI file , or save the current setting to an INI file.
- Capacity Check : Check disk capacity , range from 80GB to 2TB. This function is disabled for 561/2/5/1U products.
- Free space Check : Check disk free space after format and rw test, setting by INI file. This function is disabled for 561/2/5/1U products.
- RD Version : Prevent the operator form change the setting.
- For Clone Firmware Update : To update clone product firmware/EEPROM setting, this item must be checked, and vice versa, otherwise the update would fail.
- Partition : Partition the HDD into one partition. This function is disabled for 561/2/5/1U products.
- Format : Format the HDD as NTFS or FAT32 file system, exFAT only for Vista SP1. This function is disabled for 561/2/5/1U products.

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- R/WTest : HDD Read/Write testing. This function is disabled for 561/2/5/1U products.
- EEPROM Update : Change VID/PID and USB strings.
- EEPROM Verify : Some JMicron's chip already has customer strings, verify these strings at the beginning of MP process.
- Firmware Update : Firmware update. Load F/W File button use for path selection.
- USB 3.0 Check : Check JMS539/551/567/577/578/579/576/561/562/565/561U runs at USB 3.0 mode or not, only applies this for JMS539/551/567/577/578/579/576/561/562/565/561U and connect chips to USB 3.0 Host.
 Note. JMS577/8/9, JMS576 is link on U2 at ROM code.

5.5 EEPROM Setting Group

■ Type1 : (Note: Only support on old MPTool.)

VID : Vendor ID, provided by USB committee, 4 digits hex number.

PID : Product ID, vendor defined, 4 digits hex number.

Manuf. String : Manufacture infor., this type support at most 20 alphanumeric characters.

USB Prod. String : Product infor., contains at most 20 alphanumeric characters, and display at the Device Manager.

Map to S/N : Use Manuf. String as serial number string. OS will get the default Manuf.

🛃 Micron 2033	Sx M.P. Tool										
Load INI Save INI Capacity Deck Don't Care • FreeSpaceCheck	Execution Patition Format Volume Li RAWTest EEPROM	Setting For Elone Finness Update FAT32 v abel UsbOik Update C EEPROM Verily	EEPRO	M Settin VID 15 PID 25	9 20 09 USB	lanul. Shin Prod.Shin	g UNicton g USB to ATA	VATAPI brid		T Map Is	o S/N
Don't Care I⊽ RD Version	Src. Dir.	Update		Des	t. Dir.]		_	ML	licron	
	Port Con. 1 2 3 4 5 6 7 8 9 10 11 12 12 VEE	VID/PID/SN	Capacity	Verity	U3.0	Parti	Format	R/W Test	S,W	Firm	EEPR
Port 13 Port 14 Port 14 Port 15 Port 16	14 15 16 START	Safe Remove Close					05		Pass 070	/Total	Reset

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Figure 6 modify the type 1 of EEPROM setting

■ Type 2 : (Note: Only support on old MPTool.)

VID : Vendor ID, provided by USB committee, 4 digits hex number.

PID : Product ID, vendor defined, 4 digits hex number.

Manuf. String : Manufacture infor., this type support at most 18 alphanumeric characters.

USB Prod. String : Product infor., contains at most 20 alphanumeric characters, and display at the Device Manager.

S/N String : Device serial number, 12 hex. Characters.

Max S/N String: The max available max serial number for device.

Auto Increase : Increase after each burning.

🚰 Micron 2033	x M.P. Too	I.									
Load INI Save INI Capacity Dreck Don't Care V FreeSpaceDreck	Execution Partition Format Volume RAWTe EEPRO	on Setting Fot Done Finaxos Update FAT32 ▼ Label UsbDick et M Update □ EEPROM Verity	EEPRO	M Settin VID 15 PID 25	9 M 20 M 09 US8	lanul. Shin Prod.Shin S/N Shin	g JMicton g USB to ATA g 00A123456	AVATAPI brid 5789		∏ Autol	ncrease
Don't Care	Firmwar Loed F SW Co Src. Dir.	e Update		Des	t. Dir.				JM	icron	
Port 1 Port 2 Port 3 Port 4 Port 5 Port 6 Port 7 Port 8 Port 9 Port 10 Port 10 Port 12 Port 13 Port 13 Port 14	Port Cor 1 2 3 4 5 6 7 8 9 10 11 12 13 YE 14 15	 VID/FID/SN VID/FID/SN S 152D/2339/DCA092416 	Capacity 715403 MB	Verity	U3.0	Parti	Format	R/W Test	S/W	Firm	EEPR.
Port16	16 START	Safe Remove Close]				0%		Pass 070	/Total	Reset

Figure 7 modify the type2 of EEPROM setting

■ Type 3 :

VID : Vendor ID, provided by USB committee, 4 digits hex number.

PID : Product ID, vendor defined, 4 digits hex number.

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Manuf. String : Manufacture information, this type supports at most 30 alphanumeric characters.

USB Prod. String : Product information contains at most 30 alphanumeric characters, and display at the Device Manager.

S/N String : Device serial number, at most 30 hex Characters.

Note. According USB spec., serial number shall contain at least 12 valid digits.

Max S/N String: The max available max serial number for device.

Map to HDD String : The string will replace HDD's name and model. The first 8 characters are vendor name; the last 16 characters are product model.

Auto Increase : Increase after each burning

JMicron 2033	Bx M.P. To	ool v1.1	.6.14.29													x
Load INI Save INI Capacity Check Don't Care FreeSpaceCheck Don't Care	Exec Par For Volu RA EEF USI Firm Lo	ution \$ iition nat wre Lab vTest PROM U 3 3.0 Ch ware Up ad F/w	Setting For Clone F FAT32 el UsbDisk pdate EEPR eck date Firmwar File C:\Users\a	irmware Update OM Verify e Check dpluschen\Desktop\F	Stand	PROM Settin a 3 v VID 11 PID 02 Iby Timer(Min.) 3 	1 9 52D M 578 USB	HDD.String anuf.String Prod.String S/N String	JMicron JMicron External	Tech Disk 3.0 5678A2	1		ap to HDD String Ito Increase			
← Port 1 ← Port 2 ← Port 3 ← Port 4	 Fort Port 1 2 3 	Copy ir. C:\U Con.	✓ Folder Compar- sers\adpluschen\l VID /	e	cation\SPC-4 Capacity	Des FWVer	st. Dir.	U3.0	F/W	EEPR	Parti	Format	R/W Test	S/W	F/C	
	4 5 6 7 8 9 10 11															
Port 12 Port 13 Port 14 Port 15 Port 16 Port 17 Port 17	12 13 14 15 16 17 STAR	YES	152D/0579/ Safe Remove	/152D00579000	OMB	InCode					Pass/T	otal Res	et			
								09	6							

Figure 8 modify the type3 of EEPROM setting

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5.6 EEPROM Verify Setting Group

VID : Vendor ID, provided by USB committee, 4 digits hex number.

PID : Product ID, vendor defined, 4 digits hex number.

Manufacturer String : Manufacturer information, this type supports at most 30 alphanumeric characters.

USB Prod. String : Product information contains at most 30 alphanumeric characters, and display at the Device Manager.

Disk Name: HDD driver's name, display at the Device Manager, it maybe be affected by Map to HDD string setting of

Type3.

Volume Label: Disk's volume Label, only usable after the disk is formatted. This item is disabled for 561/2/5/1U products.

IMicron 2033	x M.P. Tool v1.1	.6.14.29												x
Load INI Save INI Capacity Check Don't Care FreeSpaceCheck Don't Care	Execution S Partition Format Volume Labe RAWTest EEPROM U USB 3.0 Ch Load F/W1 Firmware Up Load F/W1	Setting For Clone Firmware Update FAT32 Isolaria Isolaria pdate File File File Folder Compare F Advance Compare	V\578\JMS578_	PROM Veri VID 152D PID 0578	fy Settin Mar USB P C Vol HDD Fw	g nuf. String Disk Name urme Label / Revision	JMicron External D JMicron T UsbDisk 01.01V01	Disk 3.0 ech		ז ז ז ו	✓ Disk Name Ch ✓ Vol. Label Che □ HDD FWRev (J Micron	eck ck Chk		
♀ Port 1 ♀ Port 2 ♀ Port 3 ♀ Port 4 ♀ Port 5 ♀ Port 6 ♀ Port 8 ♀ Port 9	Src. Dir. [C.W. Port Con.] 1 2 3 4 5 6 7 8 9	sers\adpluschen\Desktop\book\specific	Capacity	FWVer	t. Dir.	U3.0	F/W	EEPR	Parti	Format	R/W Test	S/W	F/C	
	10 11 12 13 14 YES 15 . 16	152D / 0579 / 152D00579000 Safe Remove Close	OMB	InCode					Pass/T	otal Rese	et			
						09	6		,					

Figure 9 modify the EEPROM verify setting

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5.7 Start MP process

Manual Mode :

After setting, press the "START" button to start process. The middle red rectangle will show each item's status (Running, Pass or Fail), the button red rectangle will show the progress percentage.

IMicron 2033	x M.P. T	ool v1.1	16.14.29												x
Load INI Save INI Capacity Check Don't Care V FreeSpaceCheck Don't Care	Exec Pai For Vol R/ EE US Vol Fir Lo	rition \$ rrition rmat lume Lab WTest PROM U B 3.0 Ch mware Up pad F/W	Setting For Clone Firmware Update FAT32 I UsbDisk Ipdate EEPROM Verify eck EEPROM Verify eck File C.\Users\adpluschen\Desktop\File	Standby	ROM Settin 3 VID 91D 02 y Timer(Min.) 3	19 32D H 378 M USB I 0.03.bin	HDD.String anuf.String Prod.String S/N String	JMicron JMicron External DB1234	Tech Disk 3.0 5678A3		Ma	p to HDD String to Increase JMicron			
Port 1 A	Src. [/ Copy Dir. [C:\U Con.	Folder Compare Advance Comp sers\adpluschen\Desktop\book\specific VID / PID / SN	are ation\SPC-4 Capacity	Des FWVer	t. Dir.	U3.0	F/W	EEPR	Parti	Format	R/W Test	S/W	F/C	Ŀ
	2 3 4 5 6 7 8														
	9 10 11 12 13 14 15 16	YES	152D / 0578 / DB12345678A3	476938 MB	00.01.0		[Pass	Pass	Pass	Running				
Refresh	STAP	RT S	Safe Remove Close	USB	2.0		40	%		Pass/T	otal Rese	ıt			

Figure 10 Start MP process

After complete, the progress bar will show 100%, and update the Pass/Total record. Then press the "Safe Remove" button to remove the USB devices.

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	Execution S	Setting		EEPF	loM Settin	a								
Load INI Save INI	✓ Partition✓ Format	FAT32	are Update	Type 3	VID 15	2D H	HDD.String anuf.String	JMicron JMicron	Tech		M	ap to HDD String		
apacity Check on't Care 👻 eSpaceCheck	Volume Labe R/WTest EEPROM U USB 3.0 Che	el UsbDisk odate EEPROM eck	Verify	Standby	Timer(Min.) 3	USB F	Prod.String S/N String	External DB1234	Disk 3.0 5678A4		V A	uto Increase		
n't Care RD Version	Firmware Up	date 🦳 Firmware Ch Tile C:\Users\adplu	eck schen\Desktop\P	w\\578\JMS578_S	TD_v00.01.00	.03.bin						JMicron	1	
	Src. Dir. C:\U	rolder Lompare ers\adpluschen\Desl	Advance Comp (top\book\specific)	are ation\SPC-4	Des	t. Dir.								
	Port Con. 1 2 3 4 5 6 7 8 9 10 11 12	VID / PID	/SN	Capacity	FWVer	Verify	U3.0	F/W	EEPR	Parti	Format	R/W Test	S/W	F/C
 ♀ Port 13 ♀ Port 14 ♀ Port 15 ♀ Port 16 ♀ Port 17 	13 14 YES 15 16	152D / 0578 / DE	12345678A3	476938 MB	00.01.0			Pass	Pass	Pass	Pass	Pass (36	Pass	Pass
lefresh	START	afe Remove	Close	USB	2.0			P	ass	Pass/T 2/3	otal Res	et		

Figure 11 complete MP processes

■ Auto Mode :

After finish setting, if MP tool is auto mode by setting "MPAutorun=1" in INI file, the tool won't start immediately, it need user to plug-in a new device and MP tool will start itself. Others are the same operator as manual mode.

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JMicron 2033	c M.P. To	ool v1.1	6.14.29												×
	Exec	ution S	Setting	EEP	ROM Settir	ng									-
Load INI Save INI	I Part I Forr	ition nat	For Clone Firmware Update	Type:	VID 19 PID 0	52D I 578 M	HDD.String Ianuf.String	JMicron JMicron	Tech	ו	M N	ap to HDD String			
Capacity Check Don't Care - reeSpaceCheck	Volu R/V EEF USE	ume Labe √Test PROM Up 3 3.0 Che	al UsbDisk odate EEPROM Verify ack	Standby	Timer(Min.)	USB	Prod.String S/N String	DB1234	Disk 3.0 5678A4		√ Au	ito Increase			
)on't Care RD Version	Firm Loa	ware Up ad F/W F Copy N	date	W\578\JMS578_S	STD_v00.01.00	0.03.bin						JMicron			
	Src. D	ir. C:\Us	ers\adpluschen\Desktop\book\specifi	cation\SPC-4	De:	st. Dir.									
🔫 Port 1 🔺	Port	Con.	VID / PID / SN	Capacity	FWVer	Verify	U3.0	F/W	EEPR	Parti	Format	R/W Test	S/W	F/C	I
 ◇ Poil 2 ◇ Port 3 ◇ Port 4 ◇ Port 5 ◇ Port 6 ◇ Port 6 ◇ Port 7 ◇ Port 8 ◇ Port 9 ◇ Port 10 	1 2 3 4 5 6 7 8 9														
 Port 11 Port 12 Port 13 Port 14 Port 15 Port 16 	10 11 12 13 14 15 16	YES	152D / 0578 / DB12345678A3	476938 MB	00.01.0										
** Port 17 *	17	1 -		LICD	2.0					Pass/T	otal				

Figure 12 Auto mode start MP processes

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	-Execution 3	Settina		- EEPI	BOM Settir	0								
Load INI	I Partition I Format	FAT32	ware Update	Type		52D H	HDD.String anuf.String	JMicron JMicron	Tech	1	Ma	ap to HDD String		
apacity Check n't Care 💌 eSpaceCheck	Volume Lab R/WTest EEPROM U USB 3.0 Ch	el UsbDisk pdate	Verify	Standby	Timer(Min.)	USB F	Prod.String S/N String	DB1234	Disk 3.0 5678A4		▼ Au	to Increase		
n't Care RD Version	Firmware U Load F/W	odate 🦳 Firmware C File C:\Users\adpl	heck uschen\Desktop\F\	V\578\JMS578_S	STD_v00.01.00	1.03.bin						JMicron		
	Src. Dir. C:\U	 Folder Compare sers\adpluschen\Des 	Advance Comp sktop/book/specific	are ation\SPC-4	Des	t. Dir.								
 Port 1 Port 2 Port 3 Port 3 Port 4 Port 5 Port 6 Port 7 Port 8 Port 9 Port 10 Port 12 Port 12 Port 13 	Port Con. 1 2 3 4 5 6 7 8 9 10 11 12 13	VID / PIC	D/SN	Capacity	FWVer	Verity	U3.0	F/W	EEPR	Parti	Format	R/W Test	S/W	F/C
⇒ Port 14 ⇒ Port 15 ⇒ Port 16 ⇒ Port 17	14 YES 15 16	152D / 0578 / DI	B12345678A4	476938 MB	00.01.0			Pass	Pass	Run				
efresh	AUTO :	Safe Remove	Close	USB	2.0					Pass/T	otal Rese	et		

Figure 13 Auto mode start MP processes

5.8 Start Verify process

At this verify stage, MP tool checks strings of VID/PID Manufacturer String etc after device after a cycle of power off and power on. For verify stage, user should define the golden strings first, and the test device will compare these strings and recognize as PASS or FAIL.

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JMicron 2033:	к М.Р. Т	ool v1.1	6.14.29													x
Load INI Save INI Capacity Check Don't Care V FreeSpaceCheck Don't Care	Exec Pa Foi R/ EE US	rtition rmat lume Labo WTest PROM U B 3.0 Cho mware Up	Setting For Clone Fi FAT32 el UsbDisk pdate EEPRI eck idate Firmwar	irriware Update	EEF	PROM Veri VID 152D PID 0578	fy Settin Mar USB P C Vol HDD Fw	g rod.String Disk Name ume Label / Revision	JMicron External I JMicron T USBDISK 01.01V01	Disk 3.0 Fech			✓ Disk Name Ch ✓ Vol. Label Che ─ HDD FWRev	eck :ck Chk		
RD Version	Src. I	oad F/W I / Copy Dir. C:\U:	File C:\Users\a Folder Compare sers\adpluschen\[dpluschen/Desktop/P dvance Comp Desktop/book/specific	w\578\JMS578_s pare pation\SPC-4	TD_v00.01.00).03.bin st. Dir.						JMicron		510	1.
Port Port <th< td=""><td>Port 1 2 3 4 5 6 7 8 9 10 11 12 13 14</td><td>YES</td><td>VID/1</td><td>PID / SN </td><td>Capacity 476938 MR</td><td>00.01.0</td><td>Verify Pass</td><td>03.0</td><td>F/W</td><td> EEPR</td><td>Parti</td><td>Format</td><td> RW Test</td><td>S/W</td><td>F/C</td><td></td></th<>	Port 1 2 3 4 5 6 7 8 9 10 11 12 13 14	YES	VID/1	PID / SN	Capacity 476938 MR	00.01.0	Verify Pass	03.0	F/W	EEPR	Parti	Format	RW Test	S/W	F/C	
⊷ Port 15 ⊷ Port 16 ⊷ Port 17 ⊷ Port 17	15 16 17 AUT	0 5	afe Remove	Close	USB	2.0		10	P	ass	Pass/T 4 / 6	otalRes	et			

Figure 14 Verify stage reference strings setting

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5.9 USB 3.0 Check

IMicron 2033	x M.P.	Tool v1.1	16.14.29												x
	Exe	cution \$	Setting												
Load INI	E Pa	artition	For Clone Firmware Update												
Save INI	E Fo	ormat	FAT32 💌												
		olume Lab	el UsbDisk												
Don't Care -		/Wiest EPROMII	Indate 🔲 EEPBOM Verify												
		SB 3.0 Ch	eck												
Don't Care	-														
	F Fi	rmware Up	odate 🥅 Firmware Check				_								
RD Version	L	.oad F/W	File C:\Users\adpluschen\Desktop\F	W\578\JMS578_S	FD_v00.01.00	.03.bin						JMICTOR			
	- T S'	W Copy	🗌 Folder Compare 🔲 Advance Comp	oare											
	Src.	Dir. C:\U	sers\adpluschen\Desktop\book\specific	ation\SPC-4	Des	t Dir.					-				
		e in Jan 1						_							
Port 1 /	Port	Con.	VID / PID / SN	Capacity	FWVer	Verify	U3.0	F/W	EEPR	Parti	Format	R/W Test	S/W	F/C	-
Port 2	1														
Port 3	2	YES	152D / 0578 / DB12345678A4	476938 MB	00.01.0		Pass								
Port 4	3														
Port 6	5														
	6														-
Port 8	7														-
Port 9	9														
Port 10	10														
Port 12	11														
	12														
Port 14	14														
Port 15	15														
Port 16	16														-
	117	1	1					-		Pass/T	otal				
Refresh	AUT	0	Safe Remove Close	USB	3.0			\mathbf{P}	ass	5/8	Rese	et			
							10	0%							

Figure 15 Check USB 3.0 mode for JMS539/551/567/577/578/579/576/561/562/565/561U

For JMS539/551/567/577/578/579/576/561/562/565/561U and other USB 3.0 devices, the MP tool can check it runs under USB 3.0 mode or not. If the device is plugged into USB3.0 host and runs at USB 3.0 mode, the MP tool will show PASS of "USB 3.0 Check", it also shows each port device runs under USB 3.0 or USB 2.0, as Figure 15 shows.

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5.10 Copy files to the disk

For certain purposes, Manufacturers need to copy the specified files to the hard disk. MP tool provides the function by specific the source and destination folders.

For example, if the disk will be partitioned, formatted and copied files to, it puts the files to the folder to be copied at "C:\Users\adpluschen\Desktop\book\specification\usb storage", and the destination folder is root directory of the USB device.



Figure 16 The source files to be copied

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And the setting of MP tool is like Figure 17:

It set the Src Dir be "C:\Users\adpluschen\Desktop\book\specification\usb storage", and then set the "Dest. Dir" be empty as root directory, or otherwise to specified folders. Also, it can be achieved by modifying INI setting. After MP process finish, it can see the copied files, as Figure18 shows.

💿 JMicron 2033	3x M.P. Tool v1.1	16.14.30												x
Load INI Save INI Capacity Check Don't Care V FreeSpaceCheck Don't Care	Execution S F Patition Format Volume Lab R/WTest EEPROM U USB 3.0 Ch Load F/W	Setting For Clone Firmware Update FAT32 IusbDisk Ipdate EEPROM Verify eck Firmware Check File C:\Users\adpluschen\Desktop\F	/\\578\JMS578_S`	rD_v00.01.00	.03.bin						JMicron	•		
	- IV SW Copy I Src. Dir. C:\U	Folder Compare Advance Comp sers\adpluschen\Desktop\book\specific	are ation\usb storage	Des	t. Dir.									
••• Port 1 ••• Port 2 ••• Port 2 ••• Port 3 ••• Port 4 ••• Port 4 ••• Port 5 ••• Port 7 ••• Port 8 ••• Port 9 ••• Port 10 ••• Port 12 ••• Port 12 ••• Port 14 ••• Port 16 ••• Port 17	Port Con. 1 2 3 4 5 6 7 8 9 10 11 12 8 9 10 11 12 13 14 YES 15 15 15 15 12 12 12 12 12 12 12 12 12 12	VID / PID / SN 152D / 0578 / DB12345678A4	Capacity 476938 MB	00.01.0	Verify	U3.0	F/W	EEPR	Parti Pass	Format Pass	R/W Test	S/W Pass	F/C	
Refresh	START	Safe Remove Close	USB	2.0		10	P %	ass	Pass/T 13 / 10	6 Rese	et			

Figure 17: The setting of copy files

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Figure 18: The result of copy files

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5.11 EEPROM Setting Group for JMS539B Series

For JMS539B series, it defines four strings for MP tool, as show in below figure:

IMicron 2033:	x M.P. Tool v1.:	16.14.30												x
Load INI Save INI Capacity Check Don't Care - FreeSpaceCheck	Execution Partition Format Volume Lab R/WTest EEPROM L USB 3.0 CP	Setting For Clone Firmware Update FAT32 J bel UsbDisk Jpdate EEPROM Verify neck	EEPF Type 3 Standby	VID 15 PID 05 Timer(Min.) 3	9 320 H 339 M USB	HDD.String anuf.String Prod.String S/N String	JMicron JMicron External DB1234	Tech Disk 3.0 5678A5			ap to HDD String uto Increase			
Don't Care ▼ RD Version	Firmware U Load F/W SW Copy Src. Dir. C:VU	pdate Firmware Check File C:Users\adpluschen\Desktop\F Folder Compare Advance Comp Isers\adpluschen\Desktop\book\specific	w/\539B\JMS539B, pare	_STD_v2019.: Des	2_(NORMA t. Dir.	L					JMicron	1		
Port 1 Port 2 Port 3 Port 4 Port 5 Port 6 Port 7 Port 9 Port 10 Port 9 Port 11 Port 12 Port 12 Port 13 Port 14	Port Con. 1 3.0 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 17 17 17 17 17 17 17 17 17	VID / PID / SN 125F / A37A / DD1122334455	Capacity 122104 MB	PWVer 02.00.1	Verify	U3.0	F/W	EEPR	Parti	Format	R/W Test	S/W	F/C	
Refresh	START	Safe Remove Close	USB	3.0		09	6		Pass/1 13 / 1	fotal 6 Res	et			

Figure 19: EEPROM Setting Strings for JMS539B Series

"HDD. String": the 8 bytes of ASCII data of the vendor and 16 bytes data of the product information. The data shall be left-aligned within this field. And "Map to HDD String" will be always disabled for JMS539B series. If the "HDD. String" is not empty, the disk name of device manage will show the string after a complete power-cycle, and if this string is empty, it will shows the HDD's string as disk name.

"Manuf. String": the definition is as section 5.5, and if this edit is empty, the default string is "JMicron".

"USB Prod String": the definition is as section 5.5, and if this edit is empty, the default string is "External Disk 3.0".

"S/N String" the definition is as section 5.5, and if this edit is empty, the default string is SN of HDDs.

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Figure 20: The disk name comes from HDD.String "Jmicron""Corp."



Figure 21: The disk name comes from HDD

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5.12 Setting group for JMS577/8/9, JMS576 and JMS561/2/5/1U Series

Both JMS577/8/9, JMS576 and JMS561/2/5/1U series can't distinguish disk device when flash is NULL. If execute fail, please attention that setting be disabling include partition, format, R/W test.

For JMS577/8/9, JMS576 series, if you need include partition, format, R/W test...etc in your update flow in ROM code, you can modify .ini item "MPPortReset=1" in .ini file.

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6 INI file Setting:

6.1 Setting section

This section contains the setting of MP tool totally. Detail setting is:

- USBWritePerformance=0 : USB write performance criteria (in MB).
- USBReadPerformance=0 : USB read performance criteria (in MB).
- ShowRWPerf=1 : Show the read/write test results, 0 is disable, 1 is enable.
- WriteFileName=test.bin : Test pattern, should not delete.
- ProductModel=JMicron : A customer defined string to show at the right side of the AP w/ red characters. It can be a vendor or product model string (about 15 characters).
- WRLoop=0 : Read/Write testing loop, the bigger number the longer testing time.
- RWDataSize=100 : Read/Write testing file size(in MB),
- EEPROMONIy=0 : if the chip only have EEPROM and doesn't have flash, for JMB20336 used only.
- SupportODD=0: 0 is for HDD only, 1 will support both HDD and ODD •
- CheckMaxSn=0 : Enable restrict the Max SN to write
- MPVersion=1 : Currently mode is for MP? 0 is RD version, 1 is for MP version.
- MPSafeRemove=0 : SafeRemove after MP? 0 is manual, 1 is for auto.
- MPEEPROMToLog=0 : Log the updated EEPROM setting? 1 is enable, 0 is disable.
- PerfShift=1.1099999666214 : Let R/W performance accord scale.
- MPPassLabel=0 : Show the PASS/FAIL at the other form or the label of MP tool, 0 is show at form, 1 is show at label.
- MPAutorun=0 : Currently mode is manual start or auto start? 0 is manual, 1 is for auto.
- MPResetWait=30 : For chip auto reset function, wait device return value.(unit: second)
- MPSnAToZ=0 : Allow serial number input A~Z to write.
- MPPortReset=0 : For specific chip can issue chip reset command to reset chip at update flow. 0 is disable, 1 is enable.
- EnBarcodeMode=0 : Use barcode scanner to input serial number. 0 is disable, 1 is enable.
- EnKey0SafeRemove=0 : Use Key 0 to safe remove device. 0 is disable, 1 is enable.
- EnEPPTypeC=0 : Enable Type-C test feature. This feature needs work with JMB339. 0 is disable, 1 is enable.
- EPPPowerGPIODelay=1000 : Adjust delay time of switch power GPIO. Unit: ms. Default is 1000.
- EPPPowerOnDelay=30000 : Adjust power on delay time of chip. Unit: ms. Default is 30000.
- EPPPowerOffDelay=1000 : Adjust power off delay time of chip. Unit: ms. Default is 1000.

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Note. Please attention some items only for specific chip. If you have any question please contact with JM's FAE for more detail information.

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6.2 JMEXECUTE section

This section contains the setting of execute states. Detail setting is:

- Capacity=0: Drive Capacity check. 0 means no check, 1 means use customize value, 80 means 80GB check, 1000 means 1TB check, and so on.
- CapacityCustomize=0 : Customize Capacity check value.
- FreeSpace=0 : Drive free space check reference value setting.
- FreeSpaceRange=0 : Driver free space range, if free space check =1, then check the value between Free Space Range and Free Space + Range.
- EnFreeSpaceCheck=0: Drive free space check after format and read write test. 0 means no check, 1 means check.
- EnPartition=0 : Enable HDD partition? 0 is no, 1 is yes.
- EnFormat=0 : Enable HDD format? 0 is no, 1 is yes.
- EnRWTest=0 : Enable Read/Write test? 0 is no, 1 is yes.
- EnEEPROMUpdate=1 : Enable EEPROM update? 0 is no, 1 is yes. This setting is exclusive with EnVenderCheck.
- EnFWUpdate=1 : Enable Firmware update? 0 is no, 1 is yes.
- DiskFormat=0 : HDD file system format, 0 is NTFS, 1 is FAT32, 2 is exFAT.
- DiskLabel=UsbDisk : Drive volume label.
- FwFileName=path : Firmware file path.
- FmtSecPerClus=-1 : HDD format with cluster size, if set -1 will be default, otherwise will be specified values, this value can't violate rules of file system.
- EnVenderCheck=0 : Enable EEPROM verify? 0 is no, 1 is yes. This setting is exclusive with EnEEPROMUpdate.
- EnUSB30Check=0 : Enable check USB 3.0 for JMS539/551/567/578/576/561/562/565/561U and others USB 3.0 devices.
- EnSWCopy=0 : Enable Software copy files function? 0 is no, 1 is yes.
- SwlmgPath=path : The source files path
- SwDstFolder=path : The destination folder to copy, NOT contain the driver letter. If path = NULL is means copy to destination driver root.
- EnFWCheck=0 : Enable Firmware check? 0 is no, 1 is yes. It can't execute with firmware update together.
- EnFolderCompare=0 : Enable folder compare? 0 is no, 1 is yes.
- bAdvenceCompare=0 : Enable advance compare? 0 is no, 1 is yes. Advance compare is comparing file content.
- EnCloneProduct=0 : For JMS561U clone product used only.

Note. Please attention some items only for specific chip. If you have any question please contact with JM's FAE for more detail information.

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6.3 JMEEPROM section

This section contains the setting of EEPROM values. Detail setting is:

- TableType=3 : EEPROM table type, 1 is Type1, 2 are Type2, 3 are Type3.
- MapToHDName=1 : EEPROM Type3 maps the manufacture string to HDD Name. 0 is no, 1 is yes.
- StrBFromHDSN=1 : USB Product String comes from HDD's serial number.
- EnSNfromHDDSN=0 : Bridge firmware will report HDD's serial number to OS.
- VenderID=152D : VID, 4 digits hex numbers.
- ProductID=9567 : PID, 4 digits hex numbers.
- StringA=JMicron Tech: Disk Name show on Device Management, length depends on EEPROM Type1~3.
- StringB=External Disk 3.0 : USB Product String, length depends on EEPROM Type1~3.
- StringC=JMicron : USB Manufacture String, length depends on EEPROM Type1~3.
- String3=DB1234567890 : S/N String, length depends on EEPROM Type1~3.
- StringAlnc=0 : Manuf.String automatic increase 1. For Manuf. String as S/N on Type1 only. 0 is no, 1 is yes.
- StringBlnc=0 : Prod. String automatic increase 1. Not used now.
- String3Inc=1 : S/N String automatic increase 1. 0 is no, 1 is yes.
- FlashType=-1 : The Flash type. For support JM20336 flash type.
- StringMaxSn=0 : The Max restriction serial number, it needs to depend on CheckMaxSN.
- EEPROMRetry=0 : EEPROM burning fail retry number. 0 is no retry, 1 is one time, and 2 are two times, and so on.
- JMB509REU=0 : Control JMB509 REU_CTRL bit.
- JMB509WDHDD=0 : Patch JMB509 compatibility with WD's HDD.
- StandbyTimer=3 : In some chips, user can set standby timer into EEPROM.
- JM539PWMode=0 : Please refer to section 6.4.
- ProductRevsion=0000 : Please refer to section 6.4.
- ODDSize=0 : Setting ODD size.
- EnMultiSec=0 : JMS539/551/20329/567/577/578/579/576 support logic multi sector or not, 0 is disable, 1 is enable.
 For JMS539B/551/329, this setting is integer values, it can be 0,1,2,3, 0 means 512 bytes each sector, and 1 is 1K bytes each sector, 2 is 2K bytes each sector, 3 is 4K bytes each sector.

For JMS567/577/578/579/576, this setting is integer values, it can be 0 or 1, 0 means 512 bytes each sector, and 1 is 4K bytes each sector.

Note. NOT all JMB20329/551 series support this feature; please contact JM's FAE for more detail information.

EnOver2TBMulLun=0 : JMS539/551/20329 supports the HDD over 2TB be separated into multi-lun or not, 0 is disabled, 1 is enabled. If Enable this flag, the disk over 2TB will take as multi-luns with each lun less than 2T, and if

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this flag is disabled, the disk over 2TB will take as one lun, for WinXP platform, user maybe can't see the device of OS limitation.

Note. NOT all JMB20329 series support this feature; please contact JM's FAE for more detail information.

- EnManuProdStrSourceCtl=1 : JMS561/2/5/1U Manufacture & Product string control.
 - 0: Default USB Manufacture string => JMicron; default USB Product string=> JMS56x Series.

1: USB Manufacture string got from NVM address[0x000628]~[0x000647]; USB Product string got from NVM address[0x000648]~[0x000667].

- EnInquiryStrSourceCtl=1 : JMS561/2/5/1U Inquiry string control.
 - 0: USB string got from disk's IDENTIFY DEVICE data(Word 27-46);
 - 1: USB string got from NVM address[0x000610]~[0x000627].
 - JBOD only products: Maximum PID string is 14 bytes.
 - RAID products: Maximum PID string is 10 bytes.
- EnJMS561StandbyTime=0 : En/Disable JMS561/2/5/1U series standby timer feature. Default is disable.
- BarcodeLength=0 : Setting Barcode length when enable Barcode feature.

Note. Please attention some items only for specific chip. If you have any question please contact with JM's FAE for more detail information.

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6.4 JMEEPROM section for JMS539A/551 ONLY

- JM539PWMode=0 : JMS539A/551 ATA/ATAPI Power down Mode Enable or not. 1: Enable MCU issue spin down command to HDD in suspend mode. 0: Disable MCU issue spin down command to HDD in suspend mode.
- ProductRevsion=nnnn: JMS539A/551 product revision, it has the format of nnnn, where n is digital number from 0~9.

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一般 原則 磁碟區 驅動程式 詳細資料
JMicron Tech USB Device
屬性(P)
◆ 【 装置例項路徑
(苴(\V)
VDISK&VEN_JMICRON&PROD_TECH&REV_0103VDB12345678A4&0
確定 取消

Figure 22 Product Revision of a disk

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6.5 JMEEPROMVERIFY section

This section contains the setting of reference values for strings verify. These values only valid under enable EnVenderCheck. Only with the situation of that the chip already have defined vender strings or the EEPROM already be updated, EnVenderCheck can be enabled, otherwise shouldn't enable this setting.

Detail setting is:

- VenderID=152D : VID, 4 digits hex numbers.
- ProductID=9567 : PID, 4 digits hex numbers.
- StringA=JMicron : USB Manufacture String
- StringB=External Disk 3.0 : USB Product String
- DiskName=JMicron Tech : The name shows at device management, it may be HDD driver's name, Model name or StringA at section 6.3. It depends on "Map to HDD Strings" setting. Verify will check the name shows at Device Management. Figure 23.
- EnCheckDiskName=1 : Enable disk name check? 0 is no, 1 is yes.



Figure 23 the disk name of USB devices

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- VolumeLabel=UsbDisk : The volume Label string of a disk. Figure 24.
- EnCheckVolLabel=0 : Enable volume Label check? 0 is no, 1 is yes.



Figure 24 the volume label of a disk

- HDDFwRev=01.01V01 : The HDD Firmware revision string.
- EnCheckHDDFwRev=0 : Enable HDD firmware revision check? 0 is no, 1 is yes.

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7 LOG file format

MP TOOL execution will produce a log directory. It includes JM2033x.log, and the content record the total tested units and the passed units. The other file like: 20151202 000.txt will record each unit's production status at the day.

JM2033x.log : Record file for the tested unit's number. TotalTestCount : MP TOOL total tested unit's number. NumberOfPass : MP TOOL total tested and passed units number. 20151202_000.txt : Record file for the PCB tested results.

The first 8 characters represent the year (2015) month (12) and day (02) combination. The counting 3 characters are serial number, and each file with the serial number can record about 1000 units' result.

- No: Testing item number.
- Date : Testing date.
- Time : Testing time.
- VID/PID/ManuStr/ProdStr/SN : Burned VID/PID/ManuStr/ProdStr/serial number.
- vfVIDPID : Verify VID/PID string. Success will show "Pass", fail will show "Fail". Depend on EnVenderCheck item.
- vfManuStr : Verify USB manufacture string. Success will show "Pass", fail will show "Fail". Depend on EnVenderCheck item.
- vfProdStr : Verify USB product string. Success will show "Pass", fail will show "Fail". Depend on EnVenderCheck item.
- vfDiskName : Verify device disk name string. Success will show "Pass", fail will show "Fail". Depend on EnVenderCheck item.
- vfVol.: Verify device volume string. Success will show "Pass", fail will show "Fail". Depend on EnVenderCheck item.
- vfHDDFWRev. : Verify HDD Firmware Revision. Success will show "Pass", fail will show "Fail". Depend on EnVenderCheck item.
- Usb3.0Check : USB 3.0 checks result. Success will show "Pass", fail will show "Fail". If this test item not select, it will show "----".
- F/W : Firmware updates result. Success will show "Pass", fail will show "Fail". If this test item not select, it will show "----".
- EEPROM : EEPROM update result. Success will show "Pass", fail will show "Fail". If this test item not select, it will

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show "----".

- FW Check : Check firmware result. Success will show "Pass", fail will show "Fail". If this test item not select, it will show "----".
- ReLink : Device re-links result. Success will show "Pass", fail will show "Fail". If this test item not select, it will show "----".
- Part. : Partition test result. Success will show "Pass", fail will show "Fail". If this test item not select, it will show "----".
- Format : Format test result. Success will show "Pass", fail will show "Fail". If this test item not select, it will show "----".
- R/W : R/W test result. Success will show "Pass", fail will show "Fail". If this test item not select, it will show "----".
- Speed : Speed test. This is bundle with the R/W test while INI file has ShowRWPerf=1. It will show the Read/Write performance in MB. If this test item not select, it will show "----".
- SW Copy : Files copy result. Success will show "Pass", fail will show "Fail". If this test item not select, it will show "----".
- FolderCompare : Files compare result. Success will show "Pass", fail will show "Fail". If this test item not select, it will show "----".
- Result : Above selection tests all success will show "Pass", otherwise will show "Fail".

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