

MANUAL

OWC EXPRESS 1M2

FIRMWARE UPDATE AND CONFIGURATION ADJUSTMENTS

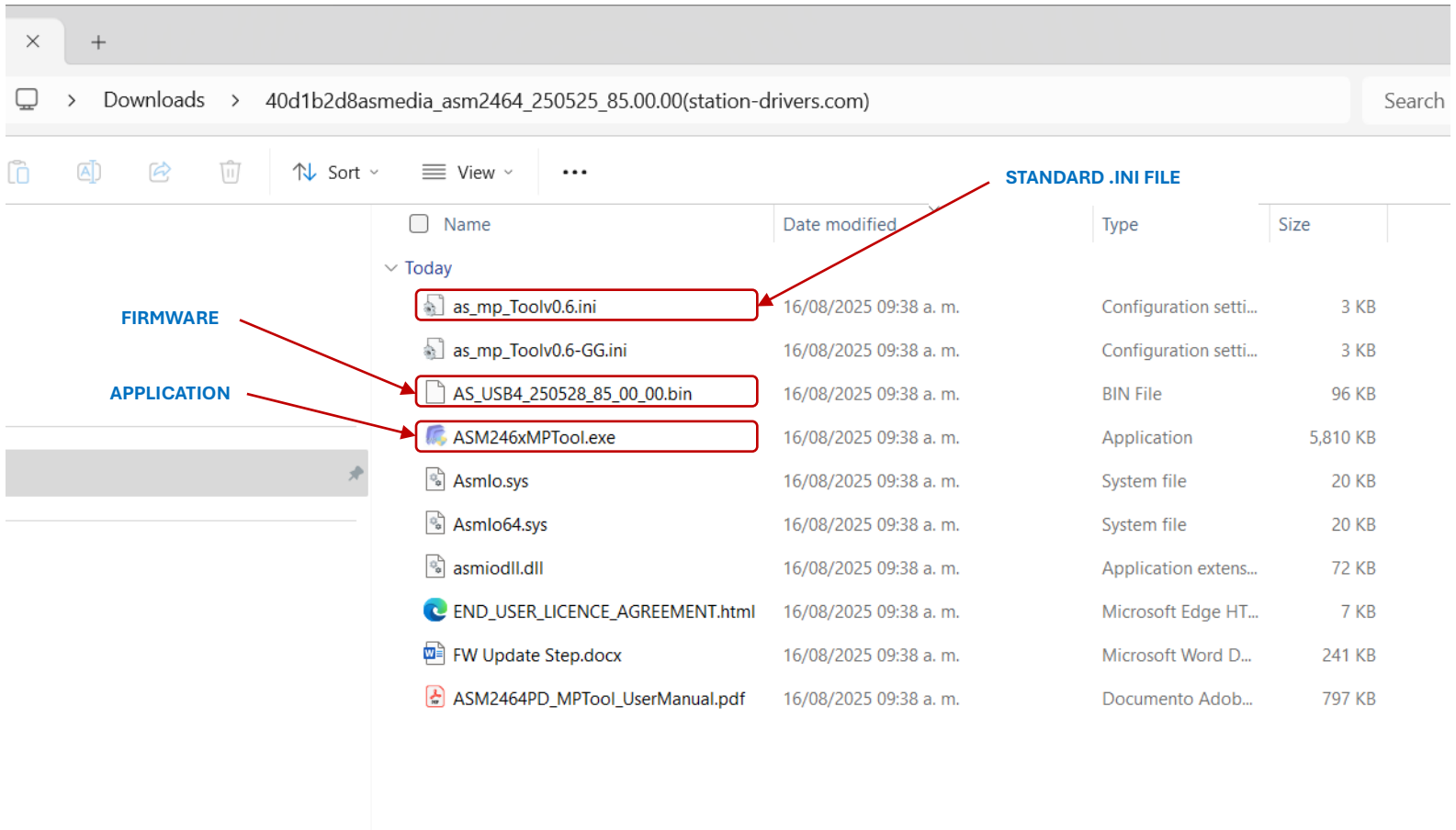
DOWNLOAD LINK

[https://www.station-drivers.com/index.php/en/component/remository/Drivers/Asmedia/ASM-2464-NVMe-USB-4.x-Controller-\(40Gbps\)/Asmedia-ASM2464-NVME-USB-4.x-Controller-Firmware-Version-250528_85_00_00/lang,en-gb/](https://www.station-drivers.com/index.php/en/component/remository/Drivers/Asmedia/ASM-2464-NVMe-USB-4.x-Controller-(40Gbps)/Asmedia-ASM2464-NVME-USB-4.x-Controller-Firmware-Version-250528_85_00_00/lang,en-gb/)

ATTENTION

THE FIRMWARE UPDATE AND CONFIGUARTION APPLICATION IS WINDOWS ONLY!

AFTER DOWNLOADING AND UNZIPPING THE FIRMWARE UPDATE PACKAGE YOU SHOULD SEE BELOW SHOWN FILES IN THE EXTRACTED FOLDER:



AFTER STARTING THE APPLICATION YOU SHOULD SEE THIS SCREEN:

**HERE YOU WOULD NORMALLY SELECT THE LOCATION OF THE FIRMWARE FILE, BUT THE SELECTION FUNCTION DOES NOT WORK.
WORKAROUND: CLOSE THE APPLICATION AND UPDATE THE PATH TO THE FIRMWARE FILE MANUALLY IN THE STANDARD .INI FILE (SEE NEXT PAGE).**

Device Configuration

Vendor ID 174C Product ID 2463 Device Revision 0100

Serial Number
111122220020 2.Increase DEC S/N CHK HEX

EPO M.String ASMedia T10 M.String ASMT
EPO P.String ASM246X series T10 P.String ASM246X
Idle Timer 10 Min

FW Browser
C:\Users\ifdrso\Downloads\Mptols-For-ASM246PD-20250801 (1)\20250801_ASM246xMPTc

Preload Browser
D:\temp

USB4 Device Configuration

Vendor Name ASMedia
Model Name 246x
U4 Mode 3:Auto

Vendor ID 174C Product ID 2463 Test ID C0000666
BCD Product FW 5528 Product HW 5A

TBT3
Vendor ID 00B8 Model ID 2463 Model Rev E3

Device Function

USB Status USB 2.0
MP Auto Mode 1 Update FW
Reload FW Config Check

Partition / Format
Partition Type MBR Format Type FAT32
Drive Label Test

W/R Test Preload Files
Speed Test Read : Write :
Auto Safe Remove After 0 Seconds

USB Searching
100%

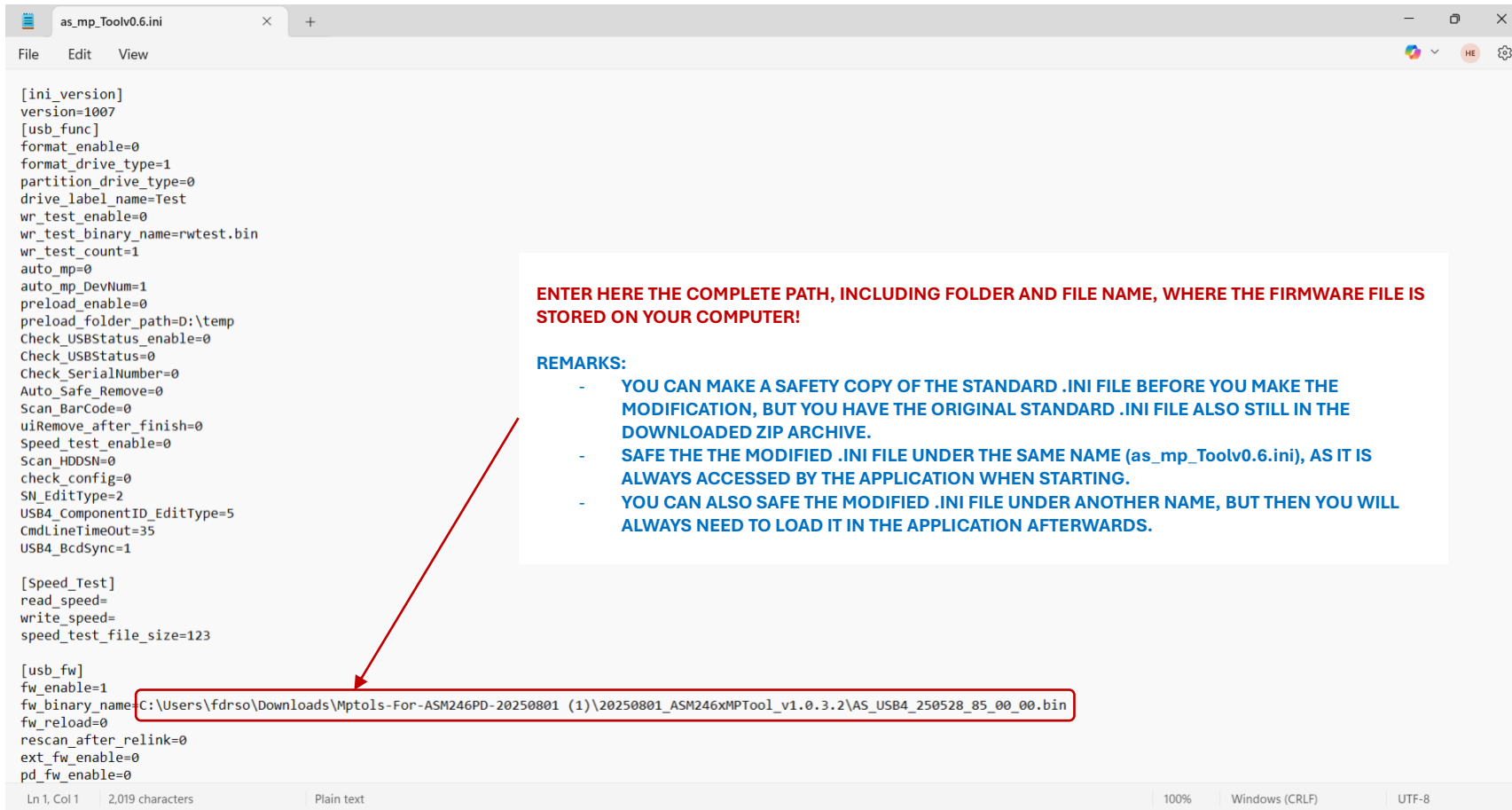
Port#	Status	VID	PID	Serial Number	FW Version	CC	U4 Mode	Capacity	Update	ReLink	Partition	R/W Test	Preload	PD
0	Gen3x2	1E91	DE79	250426A81A70	250123850309	2	PCIE TNL							
1														
2														
3														
4														
5														
6														
7														
8														
9														

Pass Fail Total
0 0 0

Progress Bar 0%

INFORMATION ABOUT DETECTED SSD ENCLOSURE

MODIFICATION OF THE STANDARD .INI FILE FOR FIRMWARE LOCATION:



```
[ini_version]
version=1007
[usb_func]
format_enable=0
format_drive_type=1
partition_drive_type=0
drive_label_name=Test
wr_test_enable=0
wr_test_binary_name=rwtest.bin
wr_test_count=1
auto_mp=0
auto_mp_DevNum=1
preload_enable=0
preload_folder_path=D:\temp
check_USBStatus_enable=0
check_USBStatus=0
check_SerialNumber=0
Auto_Safe_Remove=0
Scan_BarCode=0
uiRemove_after_finish=0
Speed_test_enable=0
Scan_HDDSN=0
check_config=0
SN_EditType=2
USB4_ComponentID_EditType=5
CmdLineTimeout=35
USB4_BcdSync=1

[Speed_Test]
read_speed=
write_speed=
speed_test_file_size=123

[usb_fw]
fw_enable=1
fw_binary_name=C:\Users\fdrrso\Downloads\Mptols-For-ASM246PD-20250801 (1)\20250801_ASM246xMPTool_v1.0.3.2\AS_USB4_250528_85_00_00.bin
fw_reload=0
rescan_after_relink=0
ext_fw_enable=0
pd_fw_enable=0
```

ENTER HERE THE COMPLETE PATH, INCLUDING FOLDER AND FILE NAME, WHERE THE FIRMWARE FILE IS STORED ON YOUR COMPUTER!

REMARKS:

- YOU CAN MAKE A SAFETY COPY OF THE STANDARD .INI FILE BEFORE YOU MAKE THE MODIFICATION, BUT YOU HAVE THE ORIGINAL STANDARD .INI FILE ALSO STILL IN THE DOWNLOADED ZIP ARCHIVE.
- SAFE THE THE MODIFIED .INI FILE UNDER THE SAME NAME (as_mp_Toolv0.6.ini), AS IT IS ALWAYS ACCESSED BY THE APPLICATION WHEN STARTING.
- YOU CAN ALSO SAFE THE MODIFIED .INI FILE UNDER ANOTHER NAME, BUT THEN YOU WILL ALWAYS NEED TO LOAD IT IN THE APPLICATION AFTERWARDS.

Ln 1, Col 1 | 2,019 characters | Plain text | 100% | Windows (CRLF) | UTF-8

AFTER MODIFYING THE STANDARD .INI FILE START THE APPLICATION AGAIN AND YOU SHOULD SEE THE MODIFIED PATH TO THE FIRMWARE FILE:

NEXT STEP:

UNLOCK THE APPLICATION

- **KLICK ON THE KEY SYMBOL**
- **ENTER THE PASSWORD: asmedia**

ASMedia 2464PD MPTool Ver 1, 0, 3, 2 (1.0.0.8) (1.0.0.4)

Device Configuration

Vendor ID 174C Product ID 2463 Device Revision 0100

Serial Number
111122220020 2.Increase DEC S/N CHK HEX

EPO M.String ASMedia T10 M.String ASMT
EPO P.String ASM246X series T10 P.String ASM246X
Idle Timer 10 Min

FW Browser
C:\Users\hereis\Downloads\40d1b2d8asmedia_asm2464_250525_85.00.00(station-driver)

Preload Browser
D:\temp

USB4 Device Configuration

Vendor Name ASMedia
Model Name 246x
U4 Mode 3:Auto

Vendor ID 174C Product ID 2463 Test ID C0000666
BCD Product FW 5528 Product HW 5A

TBT3
Vendor ID 00B8 Model ID 2463 Model Rev E3

Device Function

USB Status USB 2.0
MP Auto Mode 1 Update FW
Reload FW Config Check

Partition / Format
Partition Type MBR Format Type FAT32
Drive Label Test

W/R Test Preload Files
Speed Test Read: Write:
Auto Safe Remove After 0 Seconds

USB Searching
100%

Port#	Status	VID	PID	Serial Number	FW Version	CC	U4 Mode	Capacity	Update	ReLink	Partition	R/W Test	Preload	PD
0	Gen3x2	1E91	DE79	250426A81A6E	250528850000	2	PCIE TNL							
1														
2														
3														
4														
5														
6														
7														
8														
9														

Pass Fail Total
0 0 0

Progress Bar 0%

AFTER UNLOCKING THE APPLICATION YOUR SCREEN SHOULD LOOK LIKE THIS:

NOW YOU CAN START WITH THE FIRMWARE UPDATE AND MODIFICATIONS OF THE CONFIGURATION!

Device Configuration

Vendor ID: 174C Product ID: 2463 Device Revision: 0100

Serial Number: 111122220020 (2.Increase DEC) S/N CHK HEX

EPO M.String: ASMedia T10 M.String: ASMT
EPO P.String: ASM246X series T10 P.String: ASM246X

Idle Timer: 10 Min

USB4 Device Configuration

Vendor Name: ASMedia Model Name: 246x

U4 Mode: 3:Auto

Vendor ID: 174C Product ID: 2463 Test ID: C0000666

BCD Product FW: 5528 Product HW: 5A

TBT3 Vendor ID: 00B8 Model ID: 2463 Model Rev: E3

Device Function

USB Status: USB 2.0 MP Auto Mode: 1 Update FW
Reload FW Config Check

Partition / Format Partition Type: MBR Format Type: FAT32 Drive Label: Test

W/R Test Preload Files Speed Test Read: Write: Auto Safe Remove After: 0 Seconds

USB Searching: 100%

Port#	Status	VID	PID	Serial Number	FW Version	CC	U4 Mode	Capacity	Update	ReLink	Partition	R/W Test	Preload	PD
0	Gen3x2	1E91	DE79	250426A81A6E	250528850000	2	PCIE TNL							
1														
2														
3														
4														
5														
6														
7														
8														
9														

ORIGINAL INFORMATION FROM YOUR 1M2 ENCLOSURE, TO BE USED TO UPDATE BLUE MARKED FIELDS AS SHOWN IN THE NEXT SCREEN

SETTING TO BE CHANGED TO HAVE OWC EXPRESS 1M2 DETECTED AS A THUNDERBOLT DEVICE WHEN CONNECTED TO CALDIGIT TS4!

Pass: 0 Fail: 0 Total: 0 Progress Bar: 0%

BLUE MARKED FIELDS

- INITIALLY FILLED WITH INFORMATION FROM THE CREATOR OF THE APPLICATION
- YOU MAY WANT TO UPDATE THESE FIELDS AS SHOWN IN THE NEXT SCREEN
- THESE SETTINGS HAVE MOSTLY INFORMATIVE CHARACTER WHEN SHOWING THE DEVICE FOR EXAMPLE IN SYSTEM SETTINGS

HERE THE SCREEN WITH UPDATED SETTINGS BEFORE THE EXECUTION OF THE FIRMWARE UPDATE AND WRITING THE INFORMATION TO THE DEVICE:

ASMedia 2464PD MPTool Ver 1, 0, 3, 2 (1.0.0.8) (1.0.0.4)

Device Configuration
Vendor ID: 1E91, Product ID: DE79, Device Revision: 0100
Serial Number: 250426A81A6E, 0.User define, S/N CHK HEX
EPO M.String: OWC, T10 M.String: ASMT
EPO P.String: Express 1M2, T10 P.String: ASM246X
Idle Timer: Never

USB4 Device Configuration
Vendor Name: OWC
Model Name: Express 1M2
U4 Mode: 1:PD+PCIe+Lgcy
Vendor ID: 174C, Product ID: 2463, Test ID: C0000666
BCD Product FW: 5528, Product HW: 5A
TBT3 Vendor ID: 00B8, Model ID: 2463, Model Rev: E3

Device Function
USB Status: USB 2.0
MP Auto Mode: 1, Update FW
Reload FW, Config Check
Partition / Format: MBR, FAT32
Drive Label: Test
W/R Test, Preload Files
Speed Test: Read: , Write:
Auto Safe Remove After: 0 Seconds

USB Searching: 100%

Port#	Status	VID	PID	Serial Number	FW Version	CC	U4 Mode	Capacity	Update	ReLink	Partition	R/W Test	Preload	PD
0	Gen3x2	1E91	DE79	250426A81A6E	250528850000	2	PCIe TNL							
1														
2														
3														
4														
5														
6														
7														
8														
9														

Pass: 0, Fail: 0, Total: 0
Progress Bar: 0%

U4 MODE SETTING TO HAVE OWC EXPRESS 1M2 DETECTED CORRECTLY AS A THUNDERBOLT OR USB DEVICE WHEN CONNECTED TO CALDIGIT TS4!
DO NOT USE U4 MODE "0:PD+PCIe", AS THE DEVICE THEN IS NO LONGER RECOGNIZED WHEN CONNECTED TO A USB (NOT TB) PORT ON THE TS4!

NEXT STEP:

EXECUTE THE FIRMWARE AND CONFIGURATION UPDATE

- CLICK ON THE ARROW SYMBOL

AFTER THE FIRMWARE AND CONFIGURATION UPDATE HAS BEEN EXECUTED YOU SHOULD SEE THIS SCREEN:

The screenshot displays the ASMedia 2464PD MPTool software interface. The top bar shows the ASMedia logo, the product name 'ASM2464PD', and the version 'ASMedia 2464PD MPTool Ver 1, 0, 3, 2 (1.0.0.8) (1.0.0.4)'. The interface is divided into several sections:

- Device Configuration:** Fields for Vendor ID (1E91), Product ID (DE79), Device Revision (0100), Serial Number (250426A81A6E), and various strings (EPO M.String: OWC, T10 M.String: ASMT, EPO P.String: Express 1M2, T10 P.String: ASM246X, Idle Timer: Never).
- USB4 Device Configuration:** Fields for Vendor Name (OWC), Model Name (Express 1M2), U4 Mode (1:PD+PCIe+Lgcy), Vendor ID (174C), Product ID (2463), Test ID (C0000666), BCD Product FW (5528), and Product HW (5A). A TBT3 section shows Vendor ID (00B8), Model ID (2463), and Model Rev (E3).
- Device Function:** Radio buttons for USB Status (USB 2.0), MP Auto Mode (1), Reload FW, and Partition / Format (MBR, FAT32). Includes buttons for Update FW, Config Check, W/R Test, Preload Files, Speed Test, and Auto Safe Remove After (0 Seconds).
- USB Searching:** A green progress bar at 100%.
- Table:** A table with columns: Port#, Status, VID, PID, Serial Number, FW Version, CC, U4 Mode, Capacity, Update, ReLink, Partition, R/W Test, Preload, PD. Row 0 shows: 0, Gen3x2, 1E91, DE79, 250426A81A6E, 250528850000, 2, PCIe TNL, Capacity, Update (PASS), ReLink, Partition, R/W Test, Preload, PD.
- Bottom Bar:** A play button, a USB symbol, a summary table (Pass: 1, Fail: 0, Total: 1), a progress bar at 100%, and a large yellow 'PASS' label.

NEXT STEP:

DISCONNECT THE DEVICE

- CLICK ON THE USB SYMBOL

VISUALIZATION THAT THE FIRMWARE AND CONFIGURATION UPDATE HAS BEEN SUCCESSFULLY EXECUTED!

ADDITIONAL REMARKS:

- YOU MAY WANT TO SAVE THE APPLIED CONFIGURATION INTO THE STANDARD OR ANOTHER .INI FILE, IT SIMPLY SAVES TIME WHEN YOU WANT TO CHANGE ANYTHING ELSE (NAMING, CONFIGURATION, ETC.)
- THE BEFORE DESCRIBED PROCESS CAN BE REPEATED WITHOUT PROBLEMS FOR CHANGING CONFIGURATION, NAMING, ETC.