

# M241 firmware change guide

# M241 固件更新指南

In English and Chinese

中英双语

Version 3, February 2019

版本3, 2019年2月

**English Version starts from here**  
**英语版本由此页开始**

**Please go to page 24 for Chinese version**  
**中文版本从24页开始**

# 1 : Prepare SD card

# 1.1 Get firmware files from Schneider Electric Global English website

- > 1.1.1 : Open worldwide Schneider Electric web site: go to <https://www.schneider-electric.com/ww/en/>
- > 1.1.2 : Enter « M241 » in search field then click M241 picture:

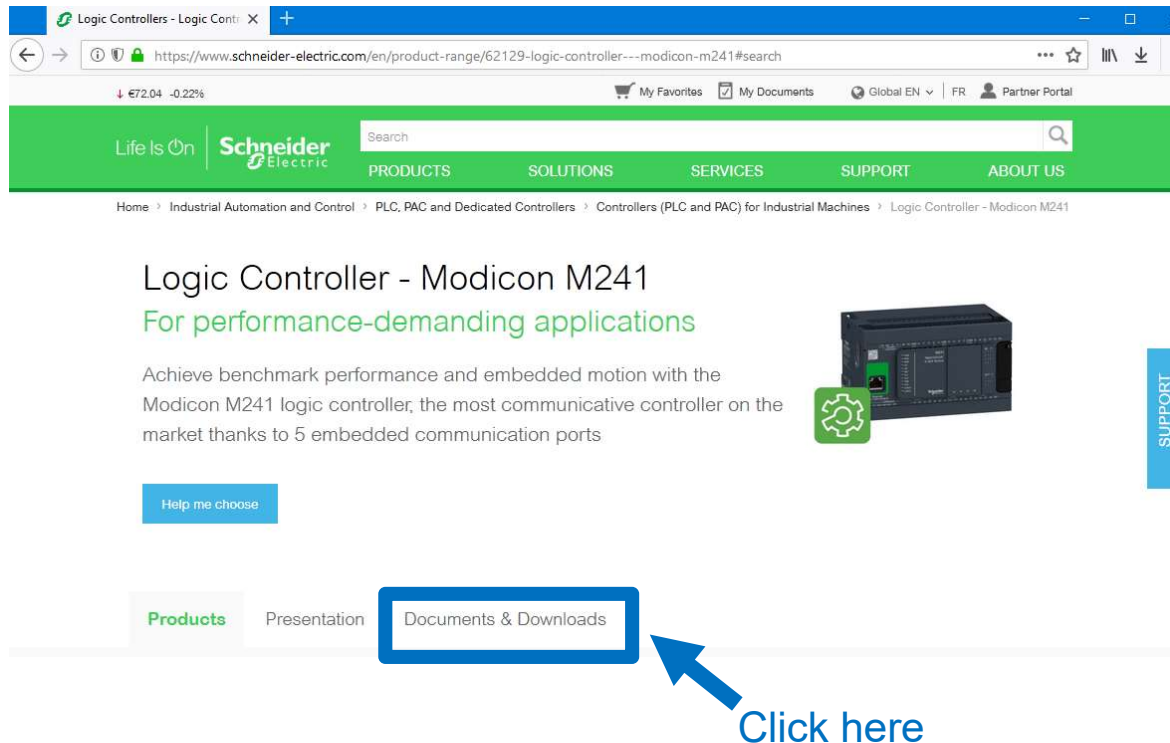
The screenshot shows a web browser window with the URL <https://www.schneider-electric.com/ww/en/>. The search bar at the top contains the text "M241". Below the search bar, there are three main sections: "SUGGESTIONS", "PRODUCT OFFER", and "PRODUCTS".

- SUGGESTIONS**: A list of search suggestions including "Accessing SD Card Files on Modicon M241 and ...", "Downloading SoMachine 4.1 Project via FTP to ...", "ABS Marine Certificate Modicon M241 M251 PLCs", "Compact / CANopen / Logic Controller M241 - ...", "Compact CANopen Logic Controller M241, Syst...", "Compact Hardwired Logic Controller M241", and "Compact Hardwired Logic Controller M241 - Wir...".
- PRODUCT OFFER**: A highlighted product card for "Logic Controller - Modicon M241 : For performance-demanding applications". A blue arrow points to the product image with the text "Click picture".
- PRODUCTS**: A list of products including "TM241C24R : controller M241 24 IO relay" and "TM241C24T : controller M241 24 IO transistor PNP".

A blue box highlights the search input field containing "M241", with a blue arrow pointing to it and the text "Type here".

# 1.1 Get firmware files from Schneider Electric Global English website

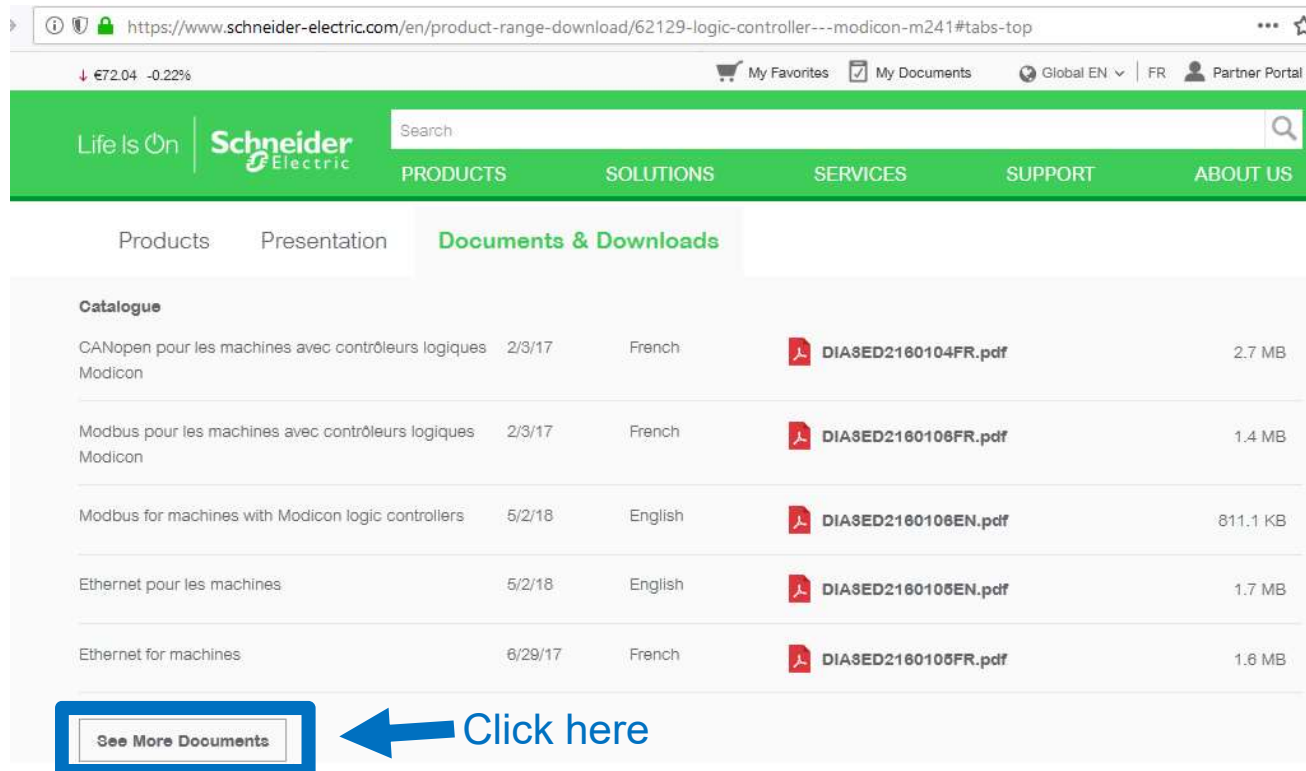
> 1.1.3 : Enter « Documents & Downloads » section:



The screenshot shows a web browser window displaying the Schneider Electric website. The page title is "Logic Controllers - Modicon M241". The main heading is "Logic Controller - Modicon M241" with the sub-heading "For performance-demanding applications". Below this, there is a paragraph: "Achieve benchmark performance and embedded motion with the Modicon M241 logic controller, the most communicative controller on the market thanks to 5 embedded communication ports". To the right of the text is an image of the Modicon M241 logic controller. Below the text is a blue button labeled "Help me choose". At the bottom of the page, there is a navigation bar with three tabs: "Products", "Presentation", and "Documents & Downloads". The "Documents & Downloads" tab is highlighted with a blue box, and a blue arrow points to it with the text "Click here".

# 1.1 Get firmware files from Schneider Electric Global English website

> 1.1.4 : See more documents:



The screenshot shows a web browser window displaying the Schneider Electric website. The URL is <https://www.schneider-electric.com/en/product-range-download/62129-logic-controller---modicon-m241#tabs-top>. The page features a green navigation bar with the Schneider Electric logo and a search bar. Below the navigation bar, there are tabs for 'Products', 'Presentation', and 'Documents & Downloads'. The 'Documents & Downloads' tab is active, showing a list of documents under the 'Catalogue' section. The list includes five entries with details such as title, date, language, file name, and size. A blue box highlights the 'See More Documents' button at the bottom left, with a blue arrow pointing to it and the text 'Click here'.

Document Title	Date	Language	File Name	Size
CANopen pour les machines avec contrôleurs logiques Modicon	2/3/17	French	DIA3ED2160104FR.pdf	2.7 MB
Modbus pour les machines avec contrôleurs logiques Modicon	2/3/17	French	DIA3ED2160106FR.pdf	1.4 MB
Modbus for machines with Modicon logic controllers	5/2/18	English	DIA3ED2160106EN.pdf	811.1 KB
Ethernet pour les machines	5/2/18	English	DIA3ED2160105EN.pdf	1.7 MB
Ethernet for machines	6/29/17	French	DIA3ED2160105FR.pdf	1.6 MB

[See More Documents](#) ← Click here

# 1.1 Get firmware files from Schneider Electric Global English website


> 1.1.5 : View more:

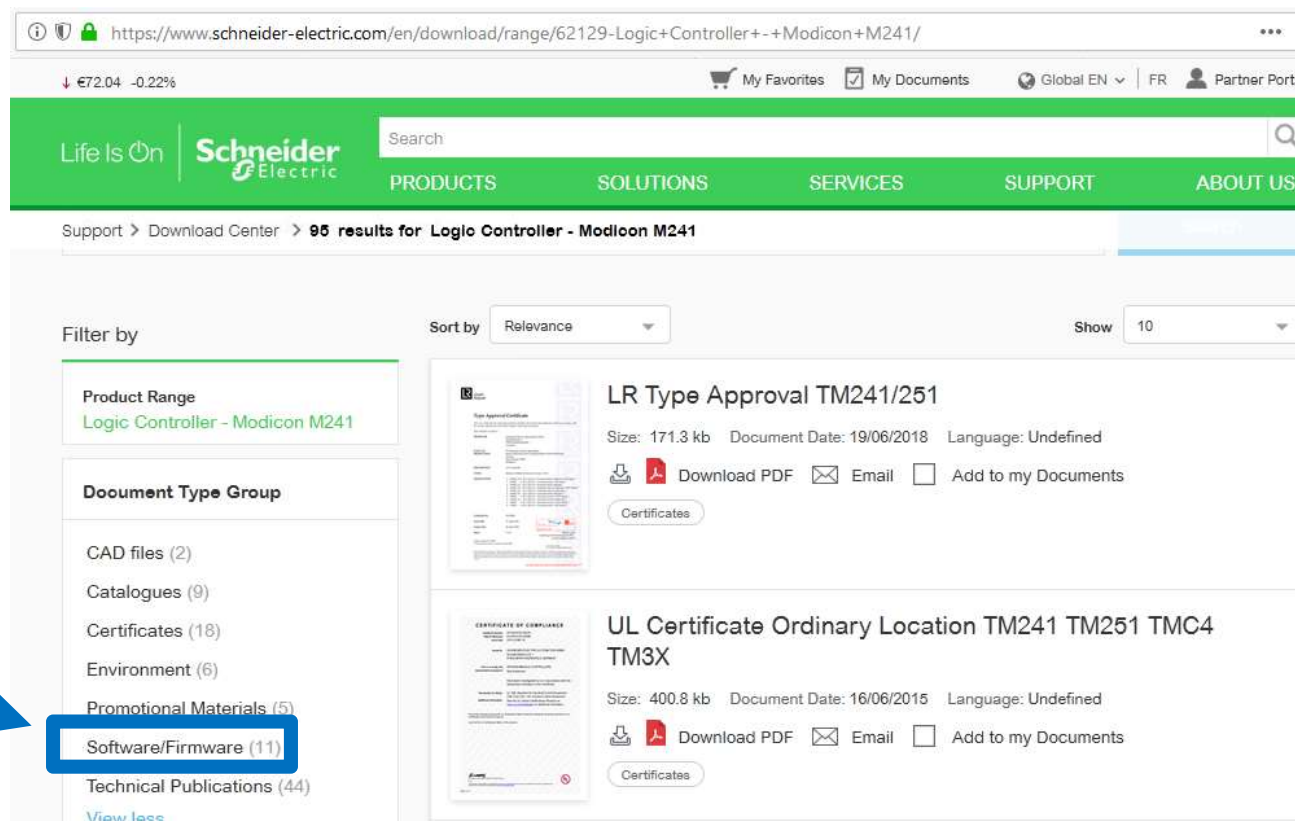
The screenshot shows a web browser window with the URL <https://www.schneider-electric.com/en/download/range/62129-Logic+Controller+-+Modicon+M241/>. The page features the Schneider Electric logo and navigation menu. The search results are for 'Logic Controller - Modicon M241' with 95 results. The filter sidebar on the left includes a 'View more' button highlighted with a blue box and a blue arrow pointing to it from the text 'Click here'. The main content area displays two document entries: 'LR Type Approval TM241/251' and 'UL Certificate Ordinary Location TM241 TM251 TMC4 TM3X', each with download and email options.

Click here 

# 1.1 Get firmware files from Schneider Electric Global English website

> 1.1.6 : Select Software/Firmware:

Click here 



The screenshot shows the Schneider Electric website interface. The URL is <https://www.schneider-electric.com/en/download/range/62129-Logic+Controller+-+Modicon+M241/>. The page displays search results for "Logio Controller - Modlooon M241". The left sidebar shows a "Filter by" section with "Product Range" set to "Logic Controller - Modicon M241" and a "Document Type Group" section. The "Software/Firmware (11)" link is highlighted with a blue box. The main content area shows two search results: "LR Type Approval TM241/251" and "UL Certificate Ordinary Location TM241 TM251 TMC4 TM3X".

Filter by

Product Range  
Logic Controller - Modicon M241

Document Type Group

- CAD files (2)
- Catalogues (9)
- Certificates (18)
- Environment (6)
- Promotional Materials (5)
- Software/Firmware (11)**
- Technical Publications (44)

Sort by Relevance

Show 10

LR Type Approval TM241/251  
Size: 171.3 kb Document Date: 19/06/2018 Language: Undefined  
Download PDF Email Add to my Documents  
Certificates

UL Certificate Ordinary Location TM241 TM251 TMC4 TM3X  
Size: 400.8 kb Document Date: 16/06/2015 Language: Undefined  
Download PDF Email Add to my Documents  
Certificates

# 1.1 Get firmware files from Schneider Electric Global English website

> 1.1.7 : Press download button:



The screenshot shows the Schneider Electric website's download center. The page is titled "11 results for Software/Firmware". The search filters are set to "Document Type Group: Software/Firmware" and "Product Range: Logic Controller - Modicon M241". The search results are sorted by "Relevance" and show 10 items per page. Two results are visible:

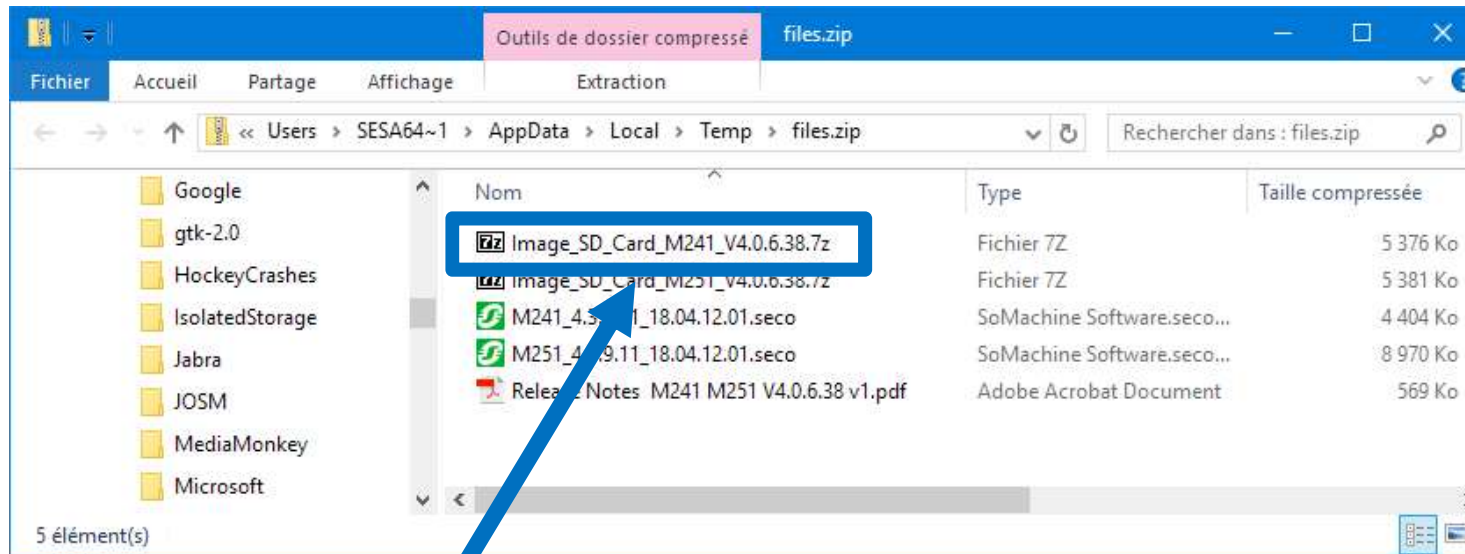
- M241-M251 Firmware v4.0.3.20**: Size: 97.4 mb, Document Date: 20/03/2016, Language: English. It has a "Download zip" button and an "Add to my Documents" checkbox.
- M241\_M251\_Firmware\_v4.0.6.38**: Size: 36.8 mb, Document Date: 19/06/2018, Language: English. It has a "Download zip" button and an "Add to my Documents" checkbox.

A blue arrow points to the "Download zip" button for the second result, with the text "Click here" next to it.

# 1.2 Open downloaded files

> 1.2.1 : « files.zip » may be opened automatically ; if not open it manually

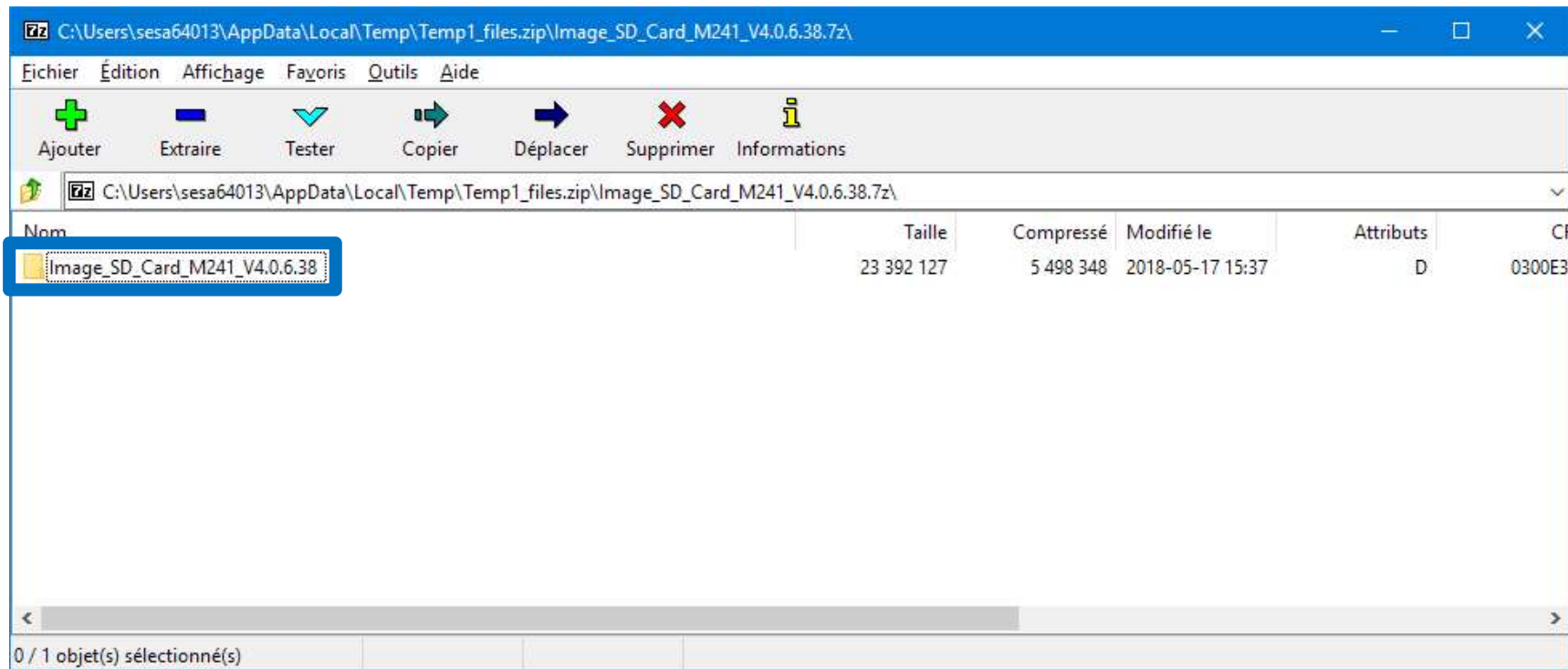
> 1.2.2 : Open « Image\_SD\_Card\_M241\_V4.0.6.38.7z” (7zip must be installed) :



Double click here

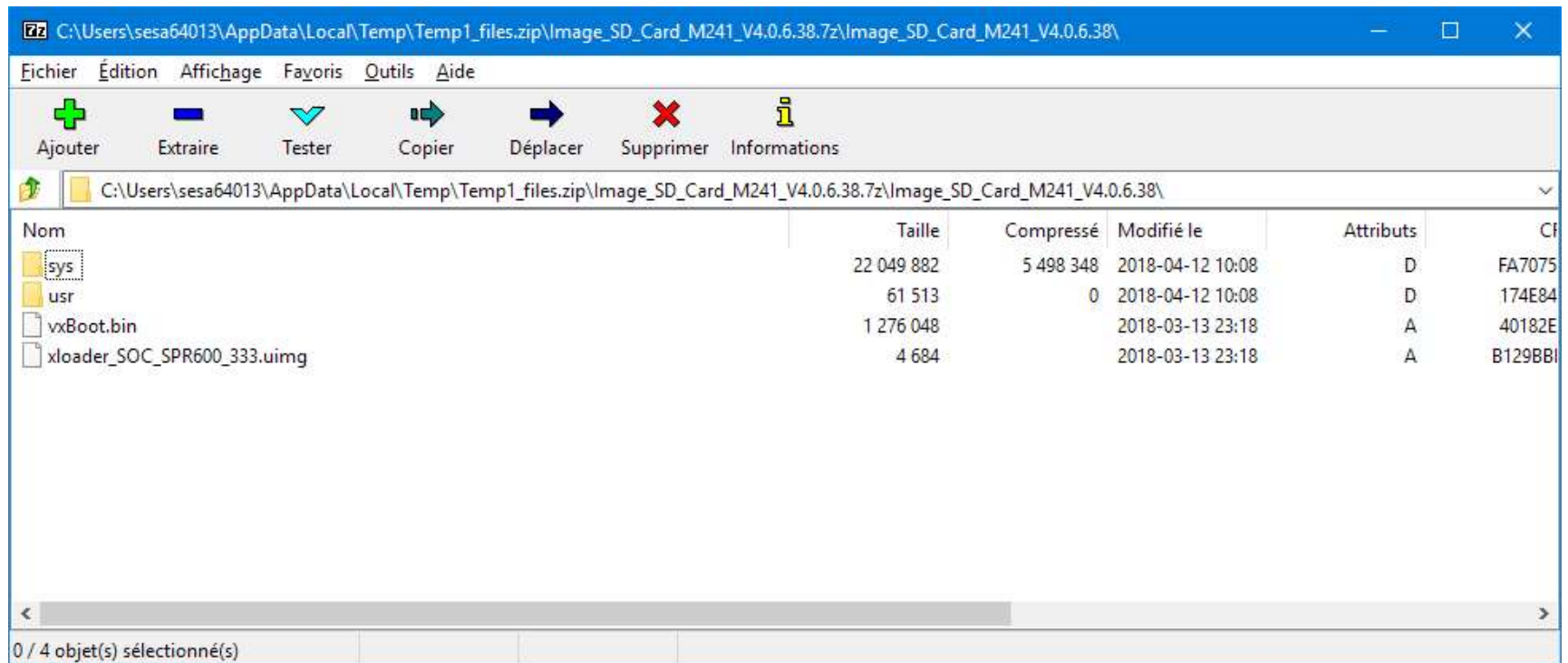
# 1.2 Open downloaded files

> 1.2.3 : Open « Image\_SD\_Card\_M241\_V4.0.6.38 » folder



# 1.2 Open downloaded files

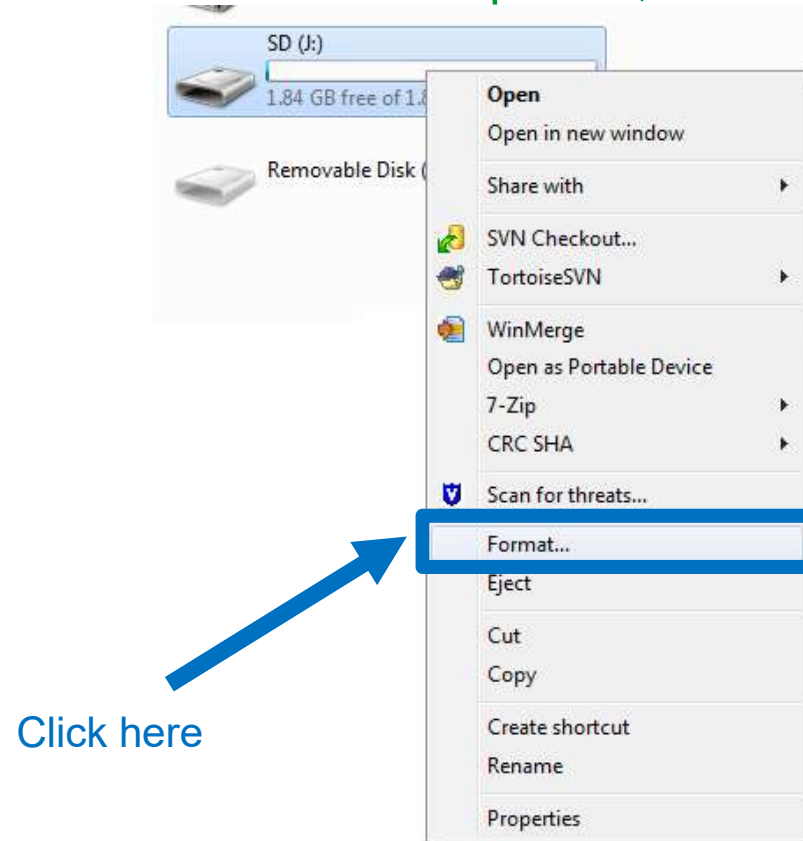
> 1.2.4 : Firmware files are now visible:



## 1.3 Transfer firmware files to SD card

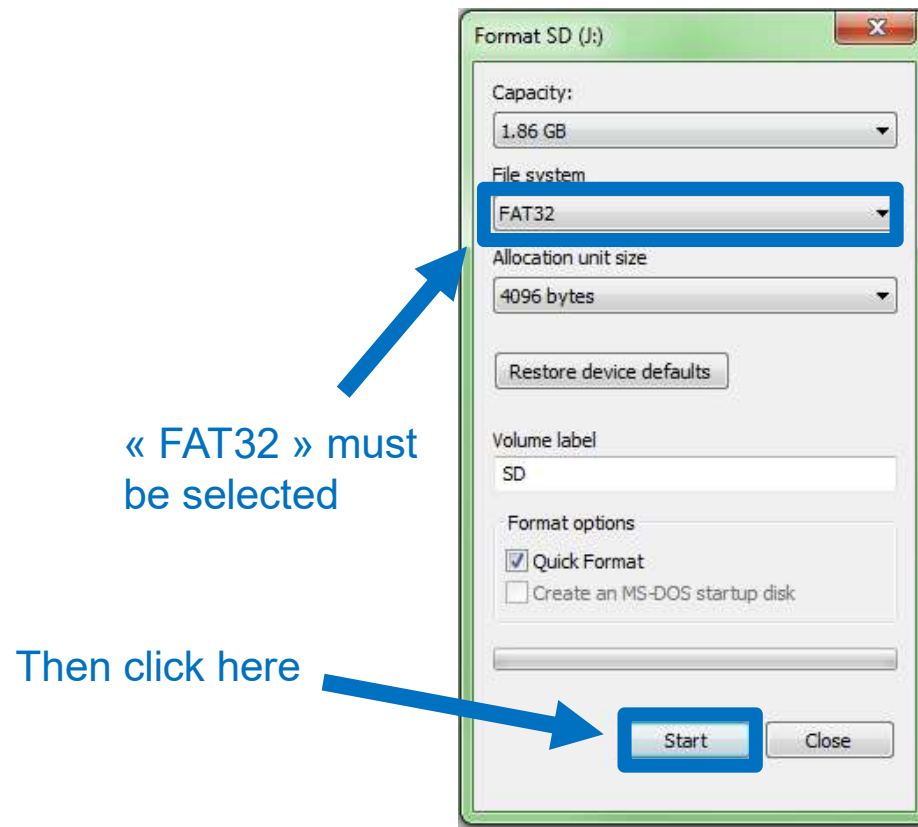
> 1.3.1 : Insert an SD card in your PC, max size 16 GB

> 1.3.2 : Click right on this SD card in «Computer», and choose « Format »



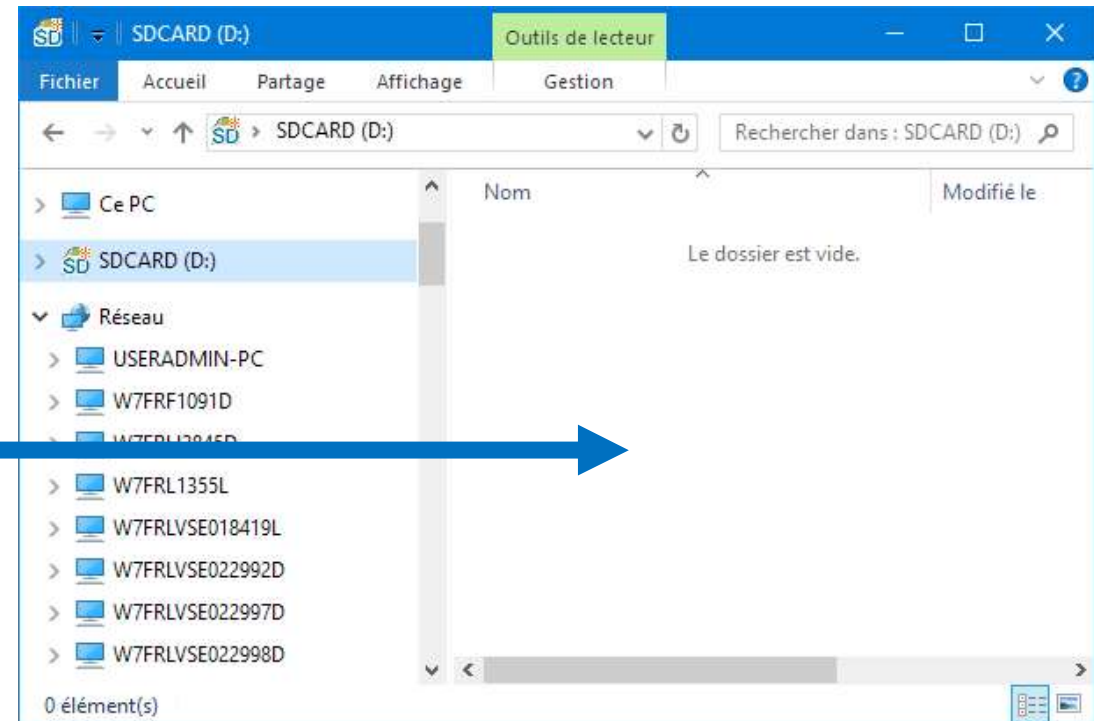
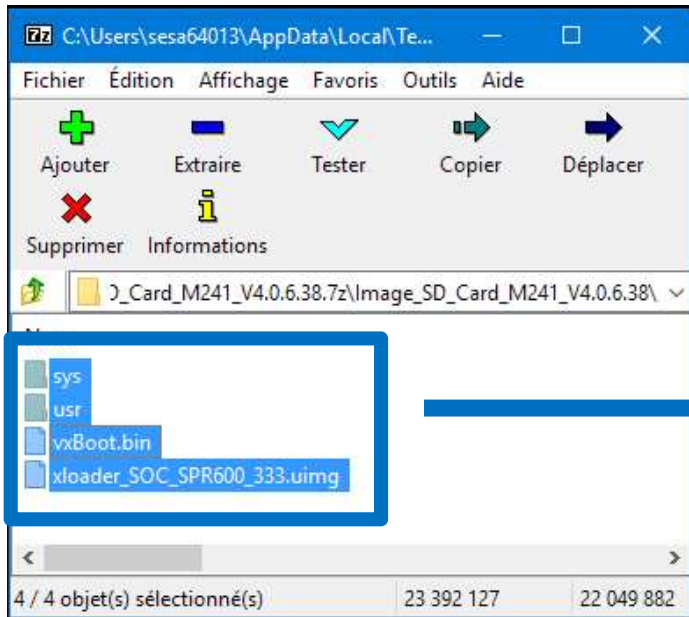
# 1.3 Transfer firmware files to SD card

> 1.3.3 : Format SD card using FAT32 :



# 1.3 Transfer firmware files to SD card

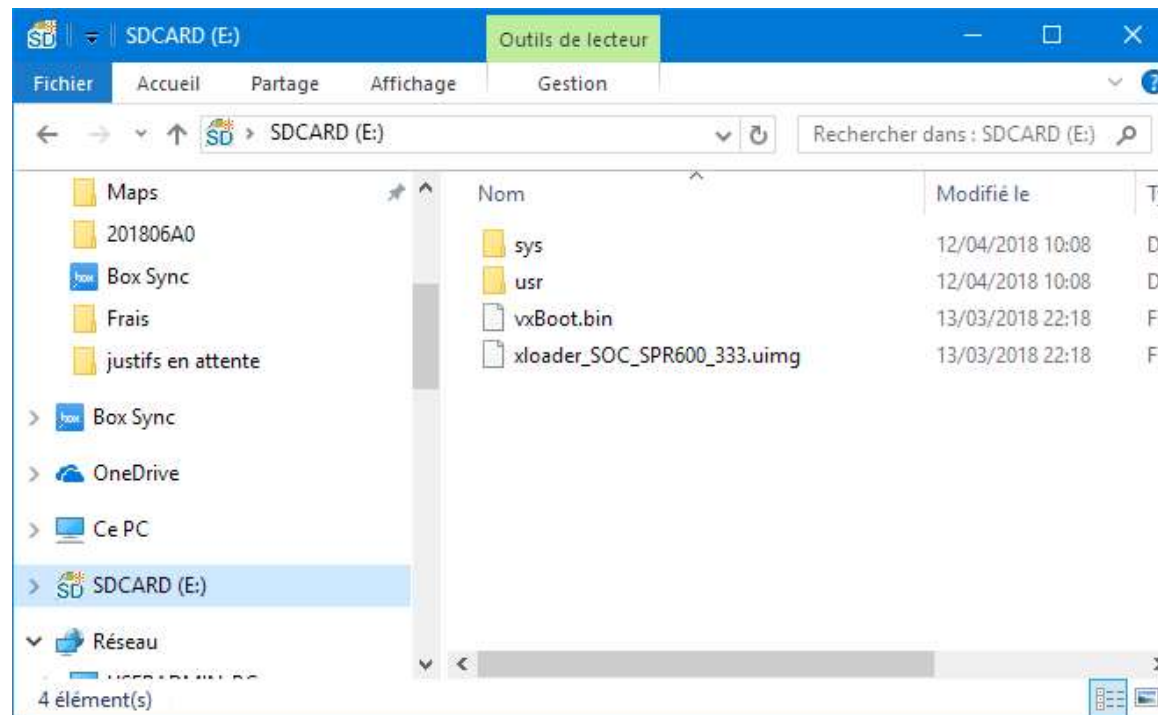
> 1.3.4 : Transfer firmware files from « Image\_SD\_Card\_M241\_V4.0.6.38 » to SD card



Drag & drop  
all of the files  
and folders

## 1.3 Transfer firmware files to SD card

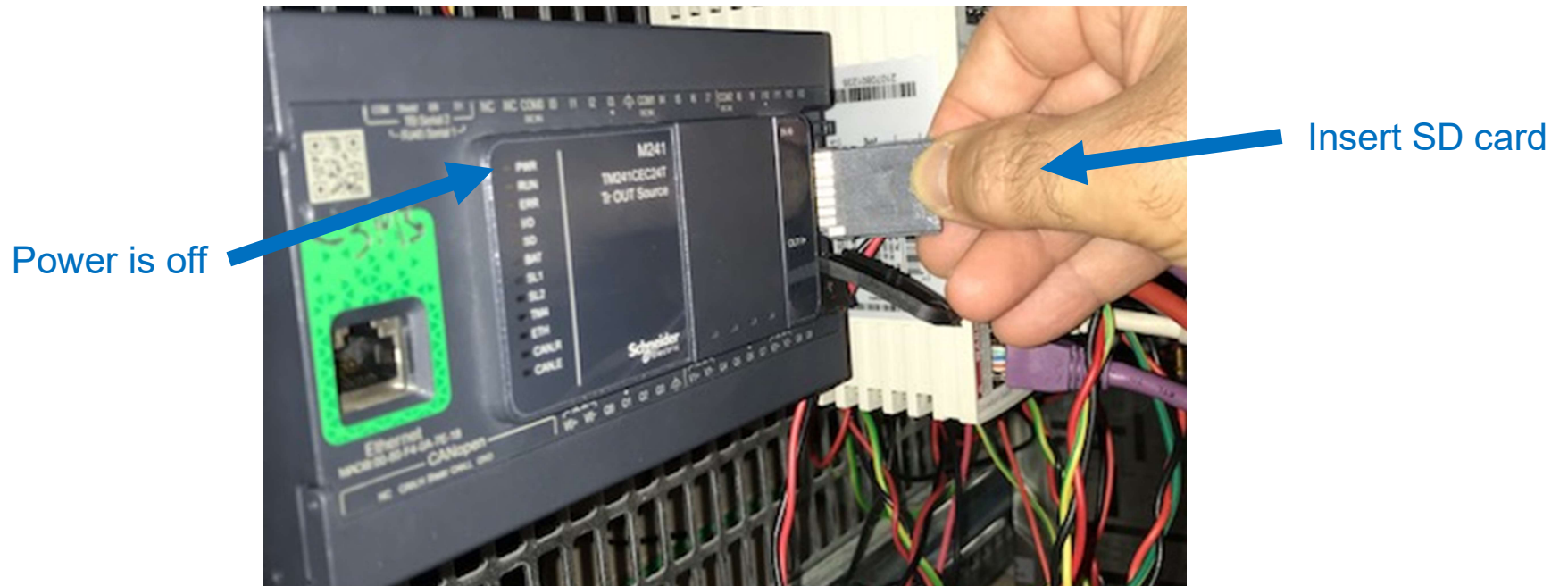
> 1.3.5 : SD card is now ready : remove it from PC using « remove safely » function



## 2 : Use SD card to update M241 firmware

## 2.1 Transfer firmware files from SD card to M241

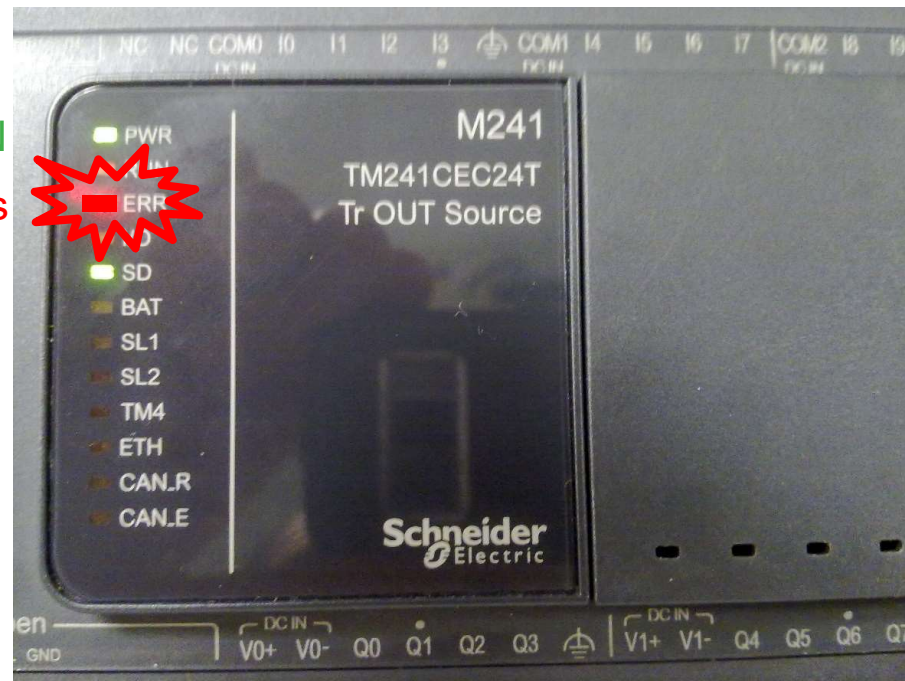
- > 2.1.1 : Switch off M241
- > 2.1.2 : Insert SD card



## 2.1 Transfer firmware files from SD card to M241

- > 2.1.3 : Switch power on
- > 2.1.4 : Wait until following condition occurs: (it takes 2 minutes from v4.0.5.11 to v4.0.6.38) : then files transfer is completed

PWR if ON  
ERR blinks  
SD if ON



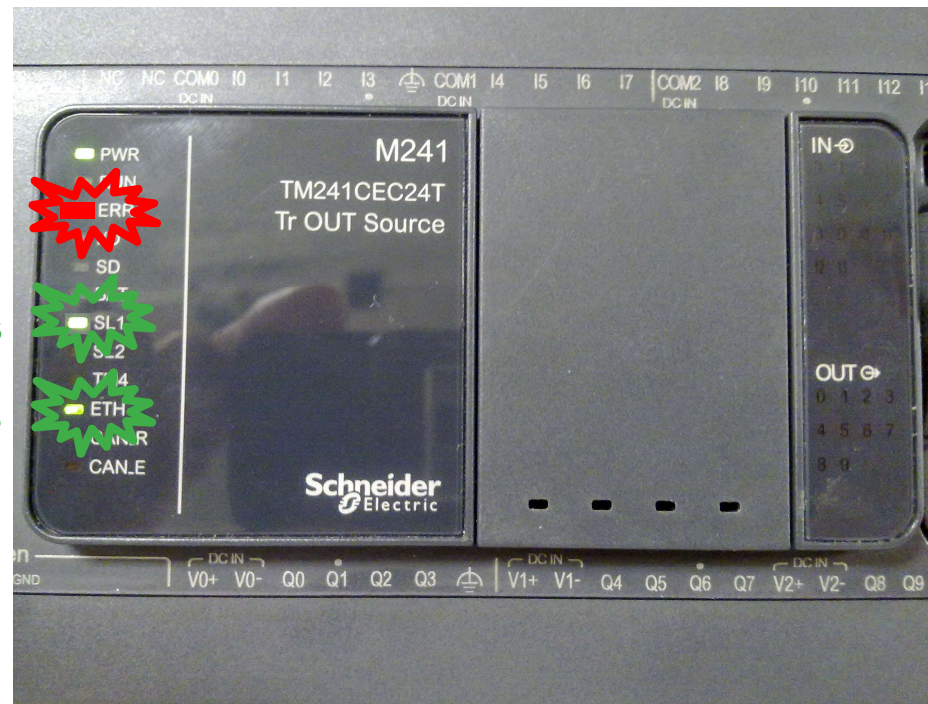
## 2.1 Transfer firmware files from SD card to M241

- > 2.1.5 : Remove SD card : M241 will reboot automatically (this takes 30 seconds)
- > 2.1.6 : Check LEDs as below : then firmware update is completed

PWR if ON  
ERR blinks

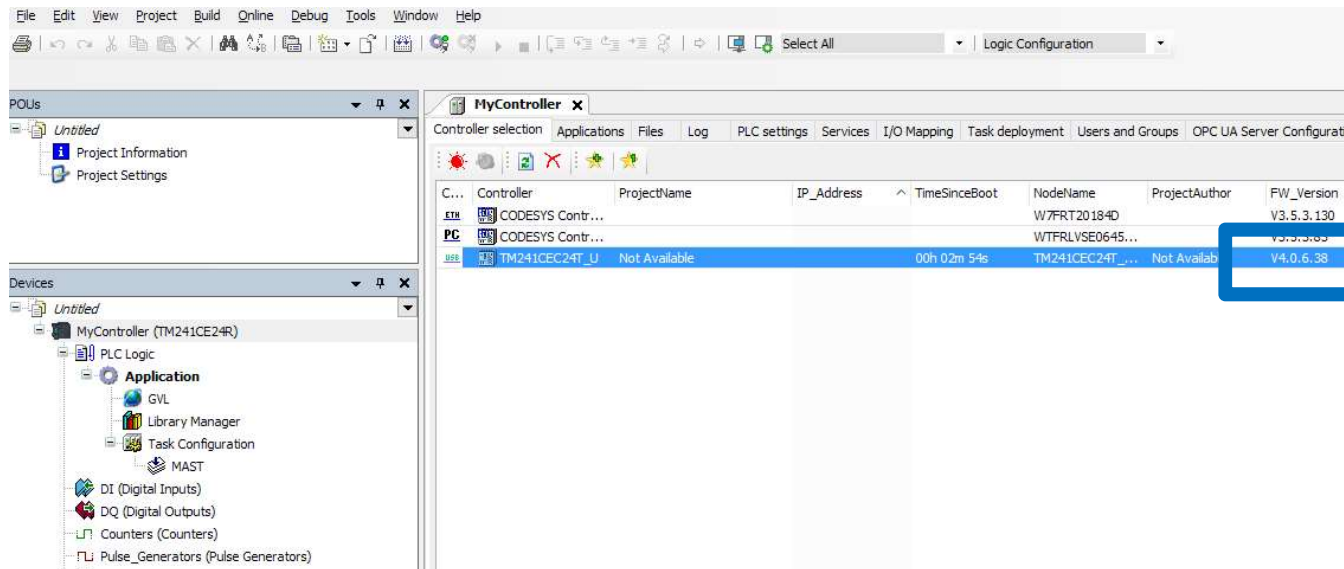
SL1 flashes

ETH blinks



## 2.2 Check firmware (optionnal step, SoMachine knowledge needed)

- > 2.2.1 : Connect M241 to PC using USB cable
- > 2.2.2 : Create an empty SoMachine project and open « MyController »
- > 2.2.3 : Check firmware version in « FW\_Version » column



Check  
firmware  
version here

## 2.3 Transfer application to controller

- > Controller is empty after firmware flashing.
- > SoMachine application must be transferred to controller. Refer to SoMachine online help for further information. Contact technical support if needed.

# Make the most of your energy<sup>SM</sup>

# Thank you!

Merci • Gracias • Danke • Спасибо • 谢谢 • شكرا • Dziękuję • Paldies • Баярлалаа  
Dhanybhad • Aguyje • Salamat • Mulțumesc • Murakoze Dankje • Obrigado • Aitäh  
Vinaka • Grazie • 감사합니다 • Дзякую вам • Ďakujem Hvala • Tack • 多謝 • Дякую  
Asante • Tesekkiri • شكرا • Благодаря • ありがとう • Ευχαριστώ • Köszönöm • Х  
вала • Takk • Merci • Gracias • Danke • Спасибо • 谢谢 • شكرا • Dziękuję • Paldies •  
Баярлалаа • Aguyje • Salamat • Mulțumesc • Murakoze Dankje • Obrigado • Aitäh  
Vinaka • Grazie • 감사합니다 • Дзякую вам • Ďakujem Hvala • Tack • 多謝 • Дякую

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**Schneider**  
 **Electric**

# M241 固件更新指南

版本3, 2019年2月

# 1 : 准备SD卡

# 1.1 从Schneider Electric 英文官方网站获取最新固件

> 1.1.1 : 打开Schneider Electric 英文全球官方网站 :

<https://www.schneider-electric.com/ww/en/>

> 1.1.2 : 在 搜索框输入« M241 », 然后点击 M241 图标:

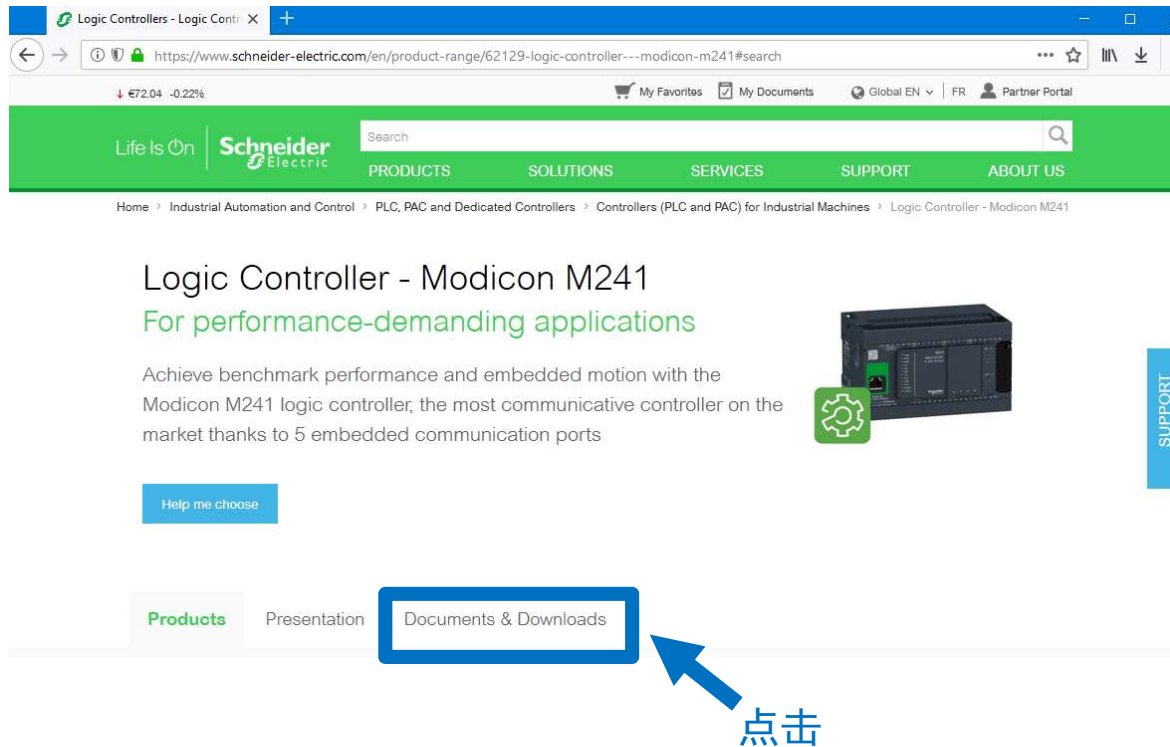
The screenshot shows a web browser window with the URL <https://www.schneider-electric.com/ww/en/>. The search bar contains the text "M241". Below the search bar, there are three main sections: "SUGGESTIONS", "PRODUCT OFFER", and "PRODUCTS".

- SUGGESTIONS**: A list of search suggestions including "Accessing SD Card Files on Modicon M241 and ...", "Downloading SoMachine 4.1 Project via FTP to ...", "ABS Marine Certificate Modicon M241 M251 PLCs", "Compact / CANopen / Logic Controller M241 - ...", "Compact CANopen Logic Controller M241, Syst...", "Compact Hardwired Logic Controller M241", and "Compact Hardwired Logic Controller M241 - Wir...".
- PRODUCT OFFER**: A highlighted product card for "Logic Controller - Modicon M241 : For performance-demanding applications". A blue arrow points to the product image with the text "Click picture".
- PRODUCTS**: A list of products including "TM241C24R : controller M241 24 IO relay" and "TM241C24T : controller M241 24 IO transistor PNP".

Annotations on the screenshot include a blue box around the search input "M241" with a blue arrow pointing to it and the text "输入 'M241'", and a blue arrow pointing to the product image in the "PRODUCT OFFER" section with the text "Click picture".

# 1.1 从Schneider Electric 英文官方网站获取最新固件

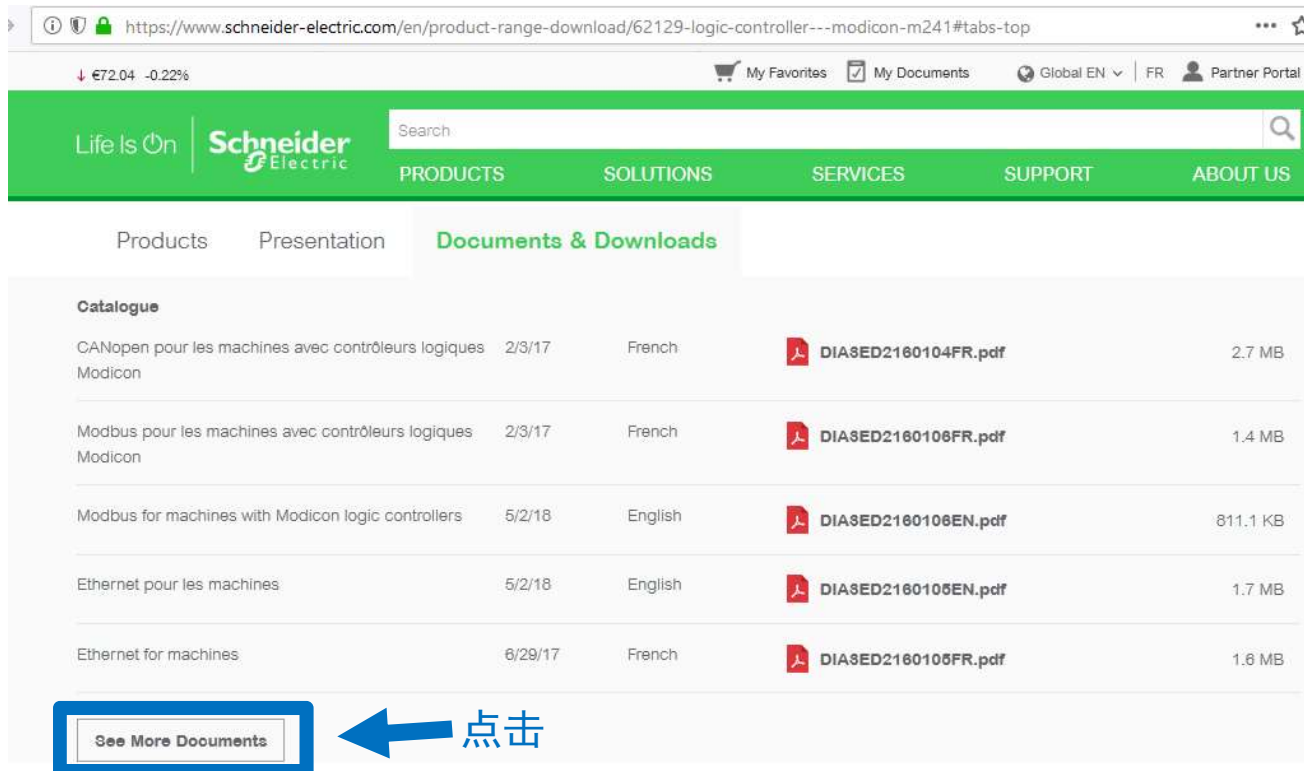
> 1.1.3 : 点击 « Documents & Downloads » 选项



The screenshot shows a web browser window displaying the Schneider Electric website. The page title is "Logic Controllers - Modicon M241". The main content area includes the text "Logic Controller - Modicon M241 For performance-demanding applications" and a description: "Achieve benchmark performance and embedded motion with the Modicon M241 logic controller, the most communicative controller on the market thanks to 5 embedded communication ports". There is a "Help me choose" button and a "SUPPORT" button. At the bottom, there is a navigation bar with three options: "Products", "Presentation", and "Documents & Downloads". The "Documents & Downloads" option is highlighted with a blue box, and a blue arrow points to it with the Chinese text "点击" (Click).

# 1.1 从Schneider Electric 英文官方网站获取最新固件

> 1.1.4 : 点击 « See more document »



The screenshot shows the Schneider Electric website interface. The browser address bar displays the URL: <https://www.schneider-electric.com/en/product-range-download/62129-logic-controller---modicon-m241#tabs-top>. The page features a green navigation bar with the Schneider Electric logo and a search bar. Below the navigation bar, there are tabs for 'Products', 'Presentation', and 'Documents & Downloads'. The 'Documents & Downloads' tab is active, displaying a list of documents under the 'Catalogue' section. The list includes the following entries:

Document Title	Date	Language	File Name	Size
CANopen pour les machines avec contrôleurs logiques Modicon	2/3/17	French	DIA3ED2160104FR.pdf	2.7 MB
Modbus pour les machines avec contrôleurs logiques Modicon	2/3/17	French	DIA3ED2160106FR.pdf	1.4 MB
Modbus for machines with Modicon logic controllers	5/2/18	English	DIA3ED2160106EN.pdf	811.1 KB
Ethernet pour les machines	5/2/18	English	DIA3ED2160105EN.pdf	1.7 MB
Ethernet for machines	6/29/17	French	DIA3ED2160105FR.pdf	1.6 MB

At the bottom of the document list, there is a button labeled 'See More Documents'. A blue arrow points to this button with the Chinese text '点击' (Click) next to it.

# 1.1 从Schneider Electric 英文官方网站获取最新固件

> 1.1.5 : 点击 «View more» :

点击



The screenshot shows the Schneider Electric website interface. The browser address bar displays the URL: <https://www.schneider-electric.com/en/download/range/62129-Logic+Controller+-+Modicon+M241/>. The page features a green navigation bar with the Schneider Electric logo and a search bar. Below the navigation bar, the breadcrumb trail reads: Support > Download Center > 95 results for Logic Controller - Modicon M241. The main content area is divided into a filter sidebar on the left and a list of search results on the right. The filter sidebar includes sections for 'Product Range' (Logic Controller - Modicon M241) and 'Document Type Group' (CAD files (2), Catalogues (9), Certificates (18), Environment (6), Promotional Materials (5)). A blue box highlights the 'View more' button at the bottom of the filter sidebar. The search results list includes two items: 'LR Type Approval TM241/251' (Size: 171.3 kb, Document Date: 19/06/2018) and 'UL Certificate Ordinary Location TM241 TM251 TMC4 TM3X' (Size: 400.8 kb, Document Date: 16/06/2015). Each result includes a 'Download PDF' button, an 'Email' button, and an 'Add to my Documents' button. A 'Certificates' button is also present for each result.

# 1.1 从Schneider Electric 英文官方网站获取最新固件

> 1.1.6 :点击 «Software/Firmware» :

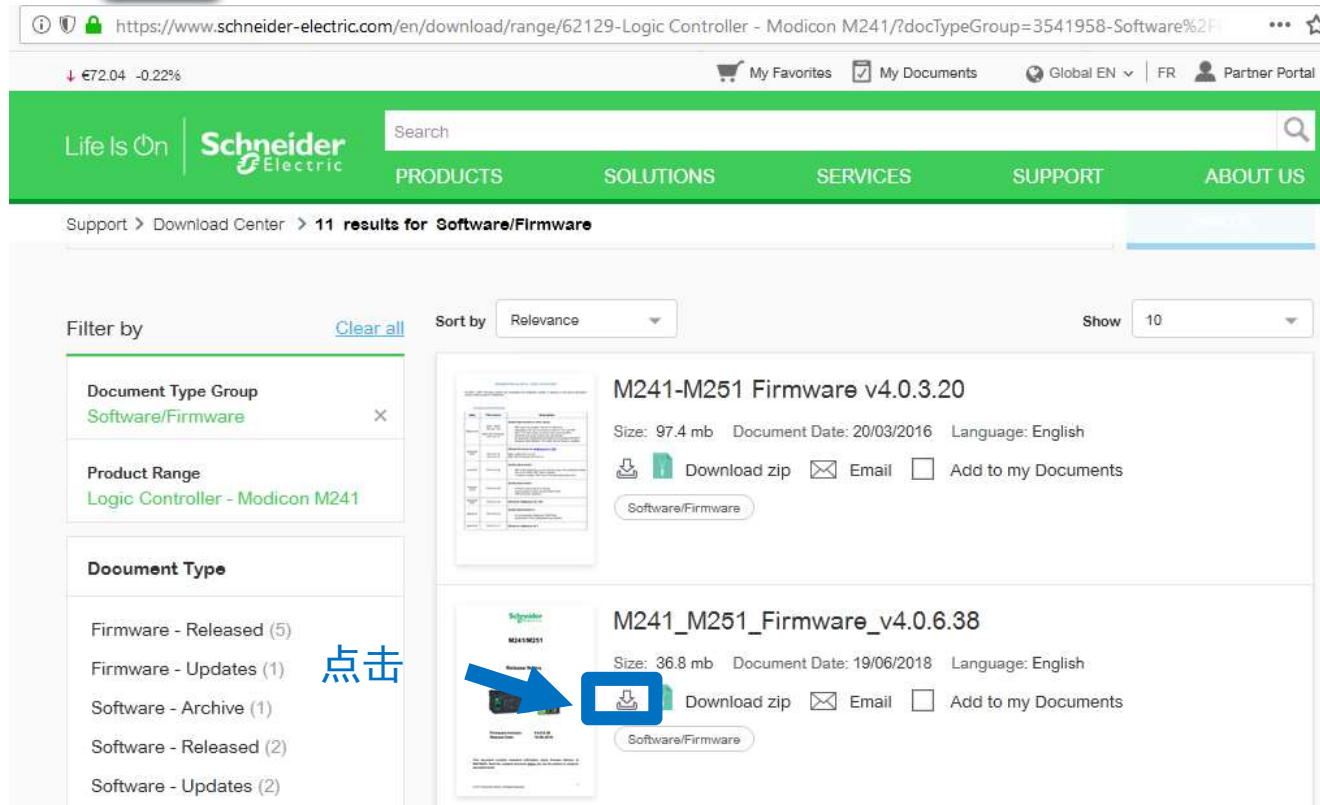
点击



The screenshot shows the Schneider Electric website interface. The breadcrumb trail is: Support > Download Center > 95 results for Logio Controller - Modicon M241. The 'Filter by' section on the left includes 'Product Range' (Logic Controller - Modicon M241) and 'Document Type Group'. The 'Document Type Group' list includes: CAD files (2), Catalogues (9), Certificates (18), Environment (6), Promotional Materials (5), **Software/Firmware (11)**, and Technical Publications (44). The 'Software/Firmware (11)' link is highlighted with a blue box. A blue arrow points from the text '点击' to this link. The main content area shows two document results: 'LR Type Approval TM241/251' (171.3 kb, 19/06/2018) and 'UL Certificate Ordinary Location TM241 TM251 TMC4 TM3X' (400.8 kb, 16/06/2015). Each result has a 'Download PDF' button and a 'Certificates' button.

# 1.1 从Schneider Electric 英文官方网站获取最新固件

> 1.1.7 :点击下载按钮:

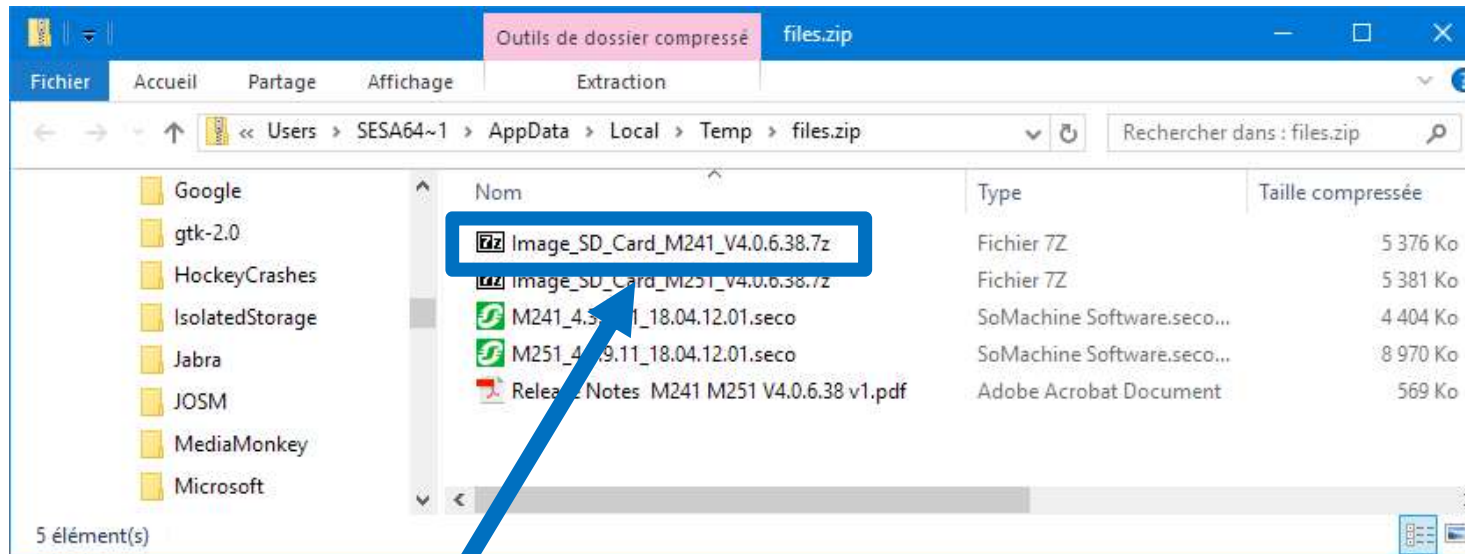


The screenshot shows the Schneider Electric website's download center. The browser address bar displays the URL: [https://www.schneider-electric.com/en/download/range/62129-Logic Controller - Modicon M241/?docTypeGroup=3541958-Software%2F](https://www.schneider-electric.com/en/download/range/62129-Logic%20Controller%20-%20Modicon%20M241/?docTypeGroup=3541958-Software%2F). The page features a green navigation bar with the Schneider Electric logo and a search bar. Below the navigation bar, the breadcrumb trail reads: Support > Download Center > 11 results for Software/Firmware. The main content area includes a filter sidebar on the left with the following sections: 'Document Type Group' (Software/Firmware), 'Product Range' (Logic Controller - Modicon M241), and 'Document Type' (Firmware - Released (5), Firmware - Updates (1), Software - Archive (1), Software - Released (2), Software - Updates (2)). The 'Document Type' section is highlighted with a blue arrow and the Chinese text '点击' (Click). The main content area displays two search results for firmware. The first result is 'M241-M251 Firmware v4.0.3.20' with a size of 97.4 mb, document date of 20/03/2016, and language of English. The second result is 'M241\_M251\_Firmware\_v4.0.6.38' with a size of 36.8 mb, document date of 19/06/2018, and language of English. Both results have a 'Download zip' button, an 'Email' button, and an 'Add to my Documents' button. A blue arrow points to the 'Download zip' button of the second result, which is also highlighted with a blue box.

## 1.2 打开下载的文件

> 1.2.1 : 打开下载的zip文件

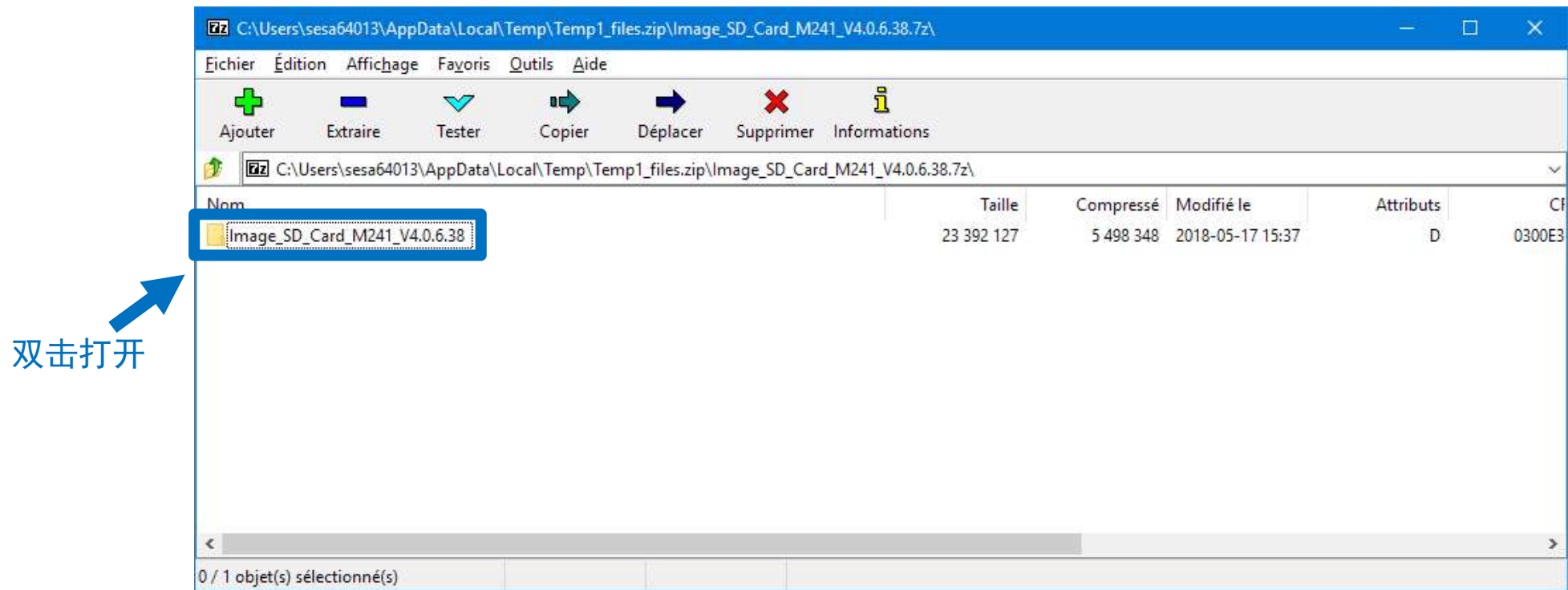
> 1.2.2 : 打开 « Image\_SD\_Card\_M241\_V4.0.6.38.7z”文件 (必须安装7zip):



双击打开此文件

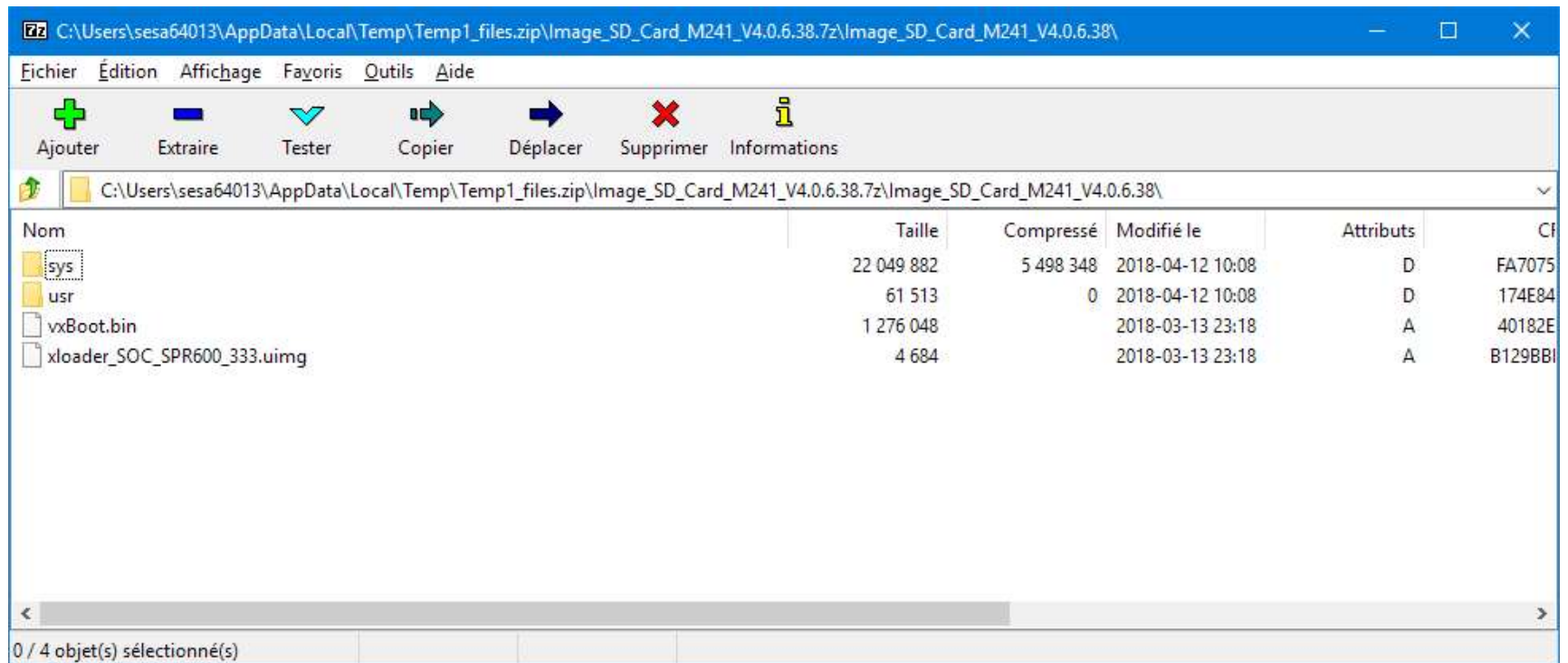
## 1.2 打开下载的文件

> 1.2.3 : 打开 « Image\_SD\_Card\_M241\_V4.0.6.38 » 文件夹



# 1.2 打开下载的文件

> 1.2.4 : 您可以看到M241的固件:



## 1.3 将M241固件传输入SD卡

- > 1.3.1 : 将SD卡插入电脑（SD卡容量不能超过16 G）
- > 1.3.2 : 在“我的电脑”里右键点击此SD卡，然后选择格式化

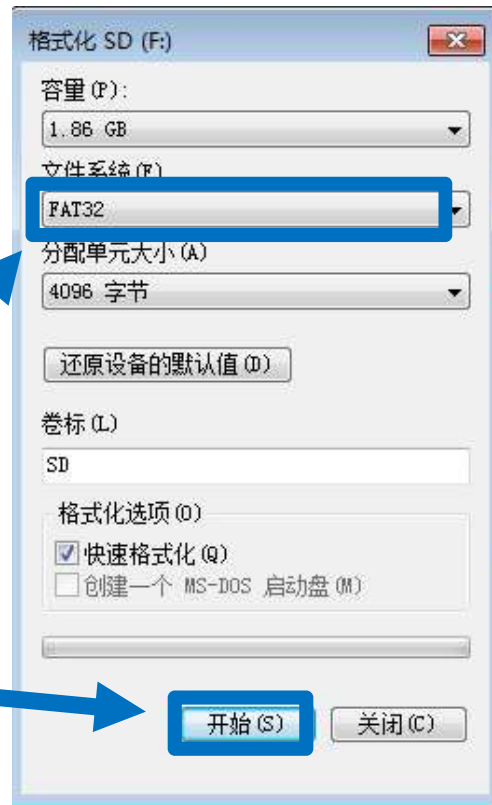


# 1.3 将M241固件传输入SD卡

> 1.3.3 : 将SD卡格式化为“FAT32”模式：

选择 « FAT32 » 模式

点击« 开始 »



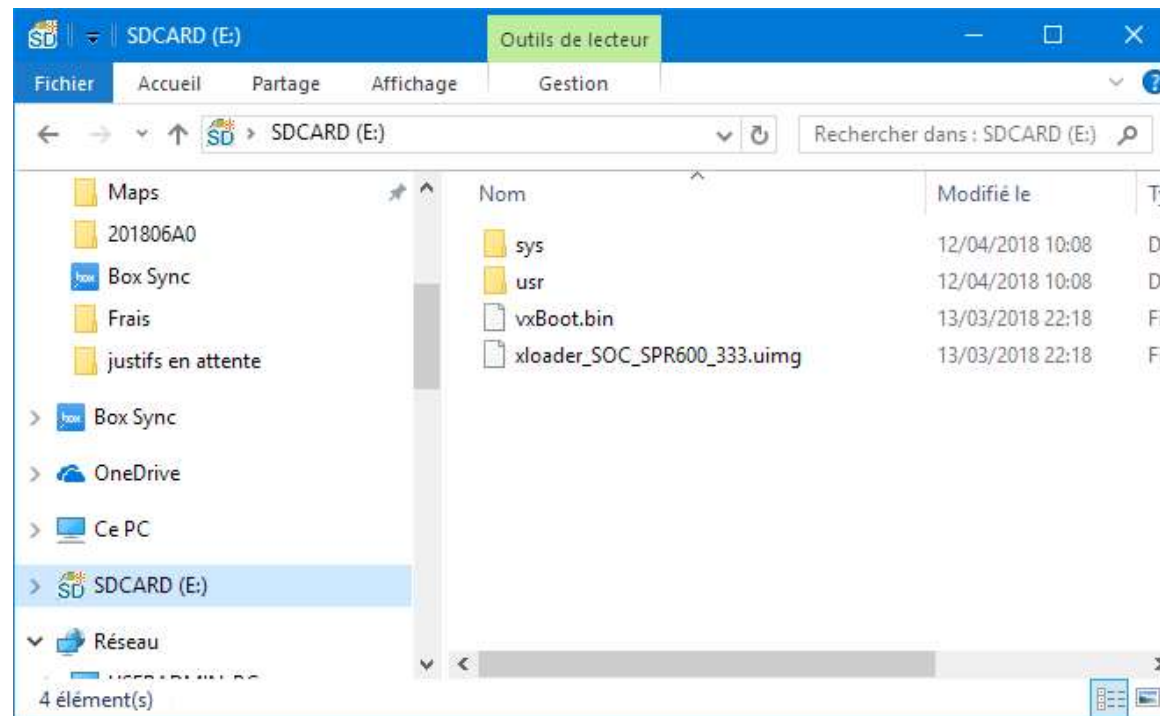
# 1.3 将M241固件传输入SD卡

> 1.3.4 : 将 « Image\_SD\_Card\_M241\_V4.0.6.38 » 文件夹里的所有内容拖动至SD卡



# 1.3 将M241固件传输入SD卡

> 1.3.5 : SD卡已准备好，您可以将SD卡拔出电脑



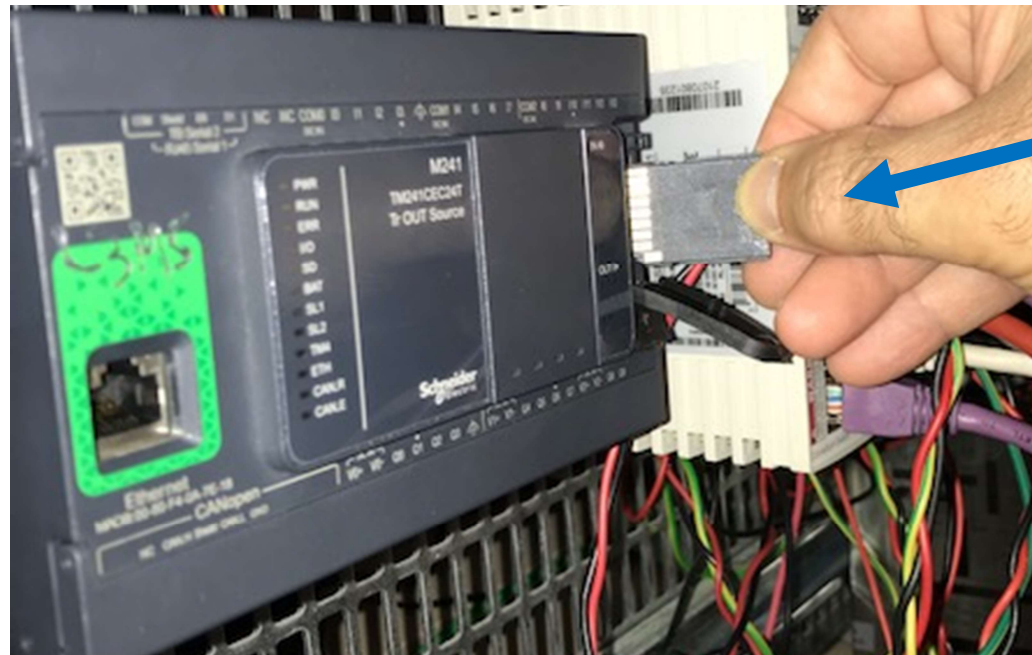
## 2 : 使用SD卡更新M241固件

## 2.1 使用SD卡更新M241固件

> 2.1.1 : 关闭M241的电源

> 2.1.2 : 将SD卡插入M241的SD卡槽

M241电源已关闭



插入SD卡

## 2.1 使用SD卡更新M241固件

> 2.1.3 : 打开M241的电源

> 2.1.4 : 等待M241固件更新结束: (从 V4.0.5.11 to V4.0.6.38 需要大致两分钟)

PWR灯 恒亮  
ERR灯 闪烁  
SD灯 恒亮



## 2.1 使用SD卡更新M241固件

> 2.1.5 : 将SD卡从控制器拔除 : M241 会自动重启 (此过程将持续30秒)

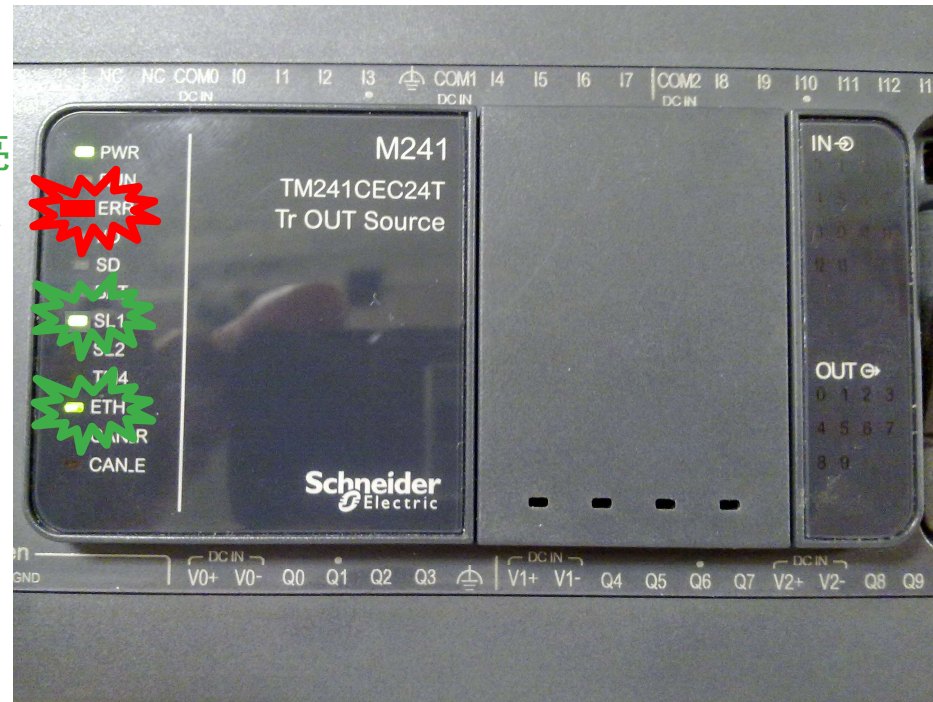
> 2.1.6 : 检查控制器的led灯状态, 固件升级就此结束:

PWR灯 恒亮

ERR灯 闪烁

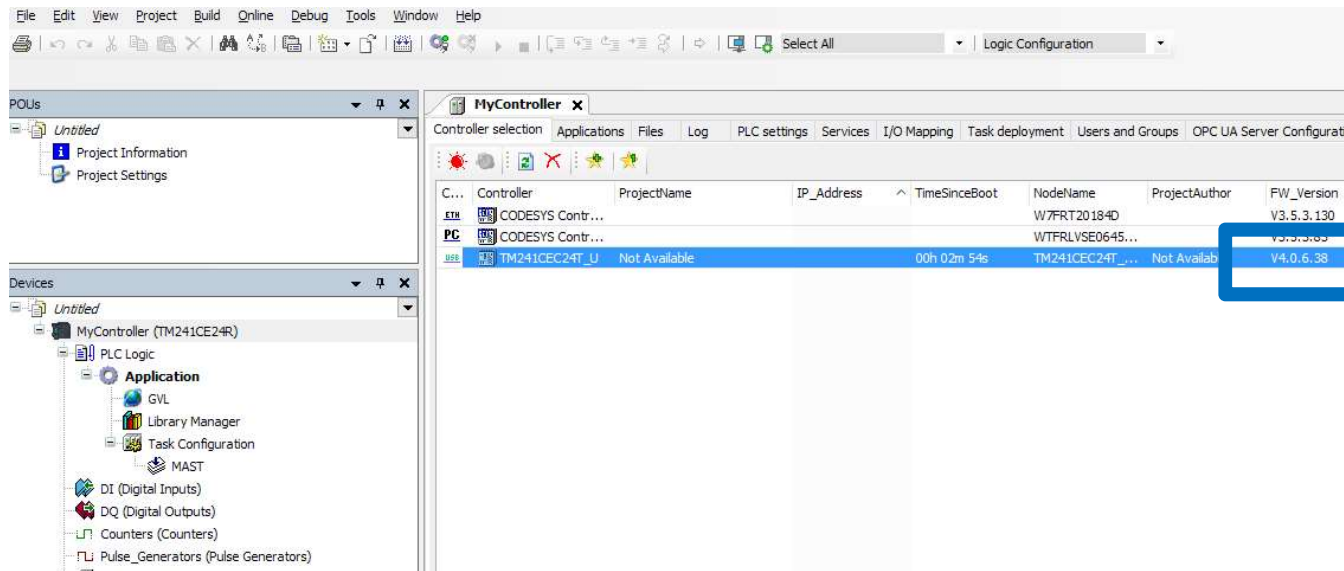
SL1灯 闪烁

ETH 闪烁



## 2.2 检查固件版本 (可选步骤, 需要会使用SoMachine软件)

- > 2.2.1 : 使用USB线连接电脑和M241控制器
- > 2.2.2 : 打开SoMachine, 创建新项目, 然后双击打开 « MyController »
- > 2.2.3 : 检查M241控制器 « FW\_Version »



检查固件版本

## 2.3 将应用传输到控制器

- > 固件更新结束后，控制器将被清空.
- > SoMachine 应用必须被重新传输到控制器中. 请参考SoMachine 在线帮助以获取更多信息. 如有需要，请联系技术支持部门.

# Make the most of your energy<sup>SM</sup>

# Thank you!

Merci • Gracias • Danke • Спасибо • 谢谢 • شكرا • Dziękuję • Paldies • Баярлалаа  
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