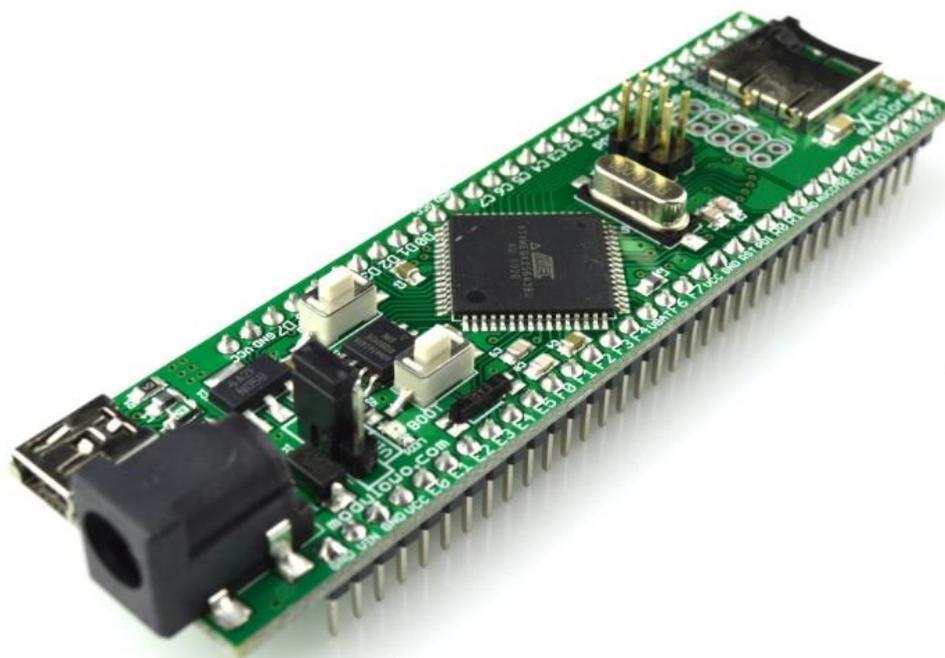


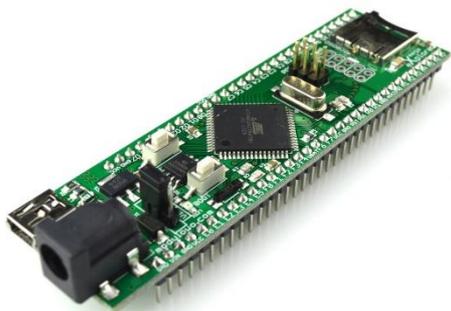
MOD - 11

Xmega eXplore with ATXmega256A3BU



Store: store.modulowo.com
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Modułowo sp. z o.o.
ul. Mokotowska 1,
00-640 Warsaw, POLAND
E-mail: info@modulowo.com



Xmega eXplore with ATXmega256A3BU development kit can be programmed via USB cable. It does not require programming or debugging. AVR XMEGA microcontrollers family have a lot of opportunities and interesting features. Projects using this kit are described in the books of Thomas Francuz "AVR. Practical Projects" and "AVR. Peripheral circuits." They are available in Polish, but the software is shared and allows you to build projects in the book.

Note! The module works with voltage max. + 3.3V.
Connecting signals + 5V voltage will damage the microcontroller.

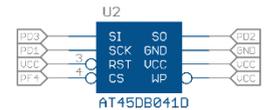
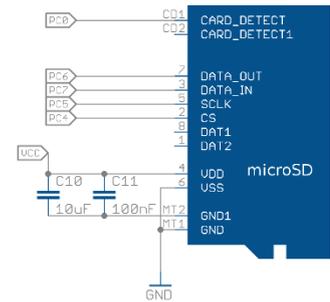
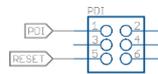
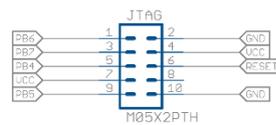
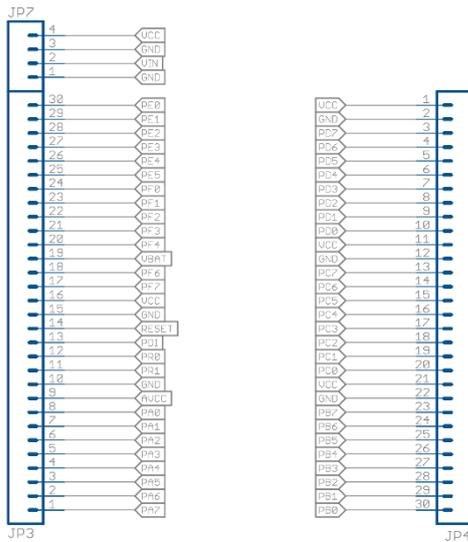
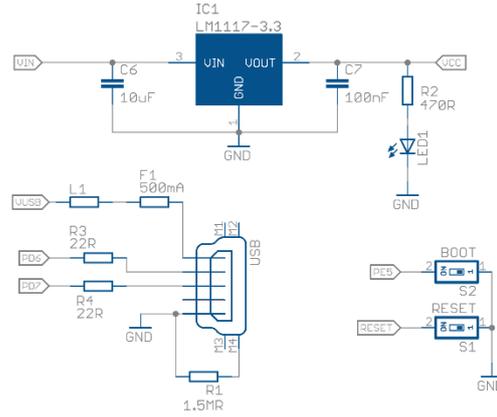
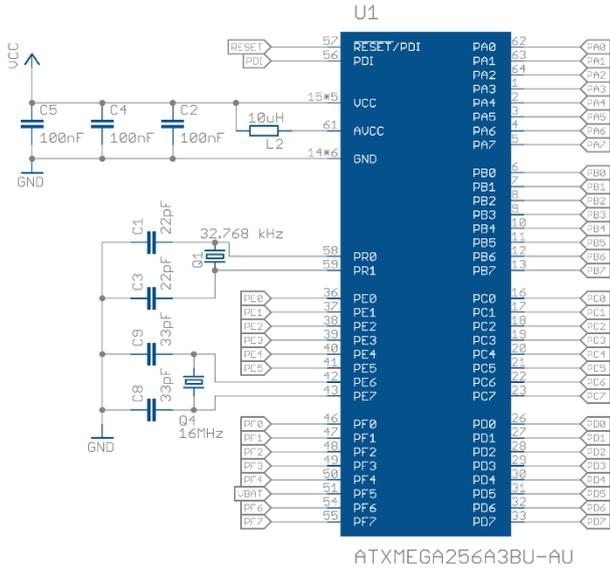
Specifications:

Code and Product Name	MOD-11 Xmega eXplore with ATXmega256A3BU
Integrated Circuit	ATXmega256A3BU-AU,AT45DB041
Protection	Polymer Fuse 500mA
Clock Frequency	16MHz and 32,768 kHz
Programming	USB cable and software Atmel® FLIP
Output Pins	fitted to the breadboard
Power	USB connector max. +5V or DC connector (VIN) max. +12V
LED Indication	yes
Dimensions	98 mm x 28 mm
Configuration	VCC Power Select Jumper (USB or VIN)
Additional Information	+3.3V output voltage enables the supply of additional modules
	RESET and BOOT switch
	MicroSD connector

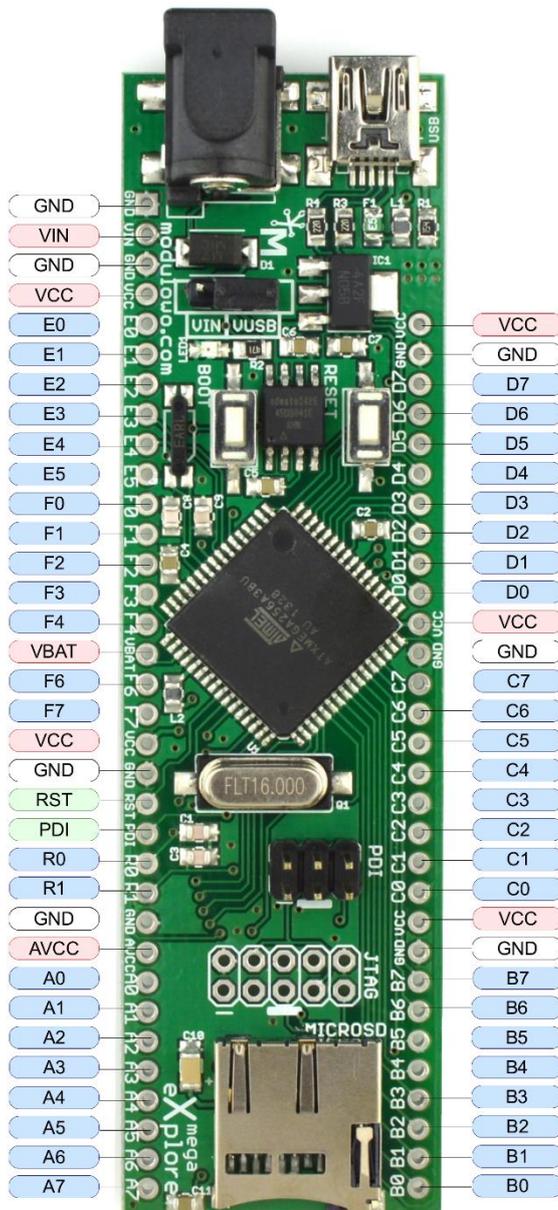
Your list of modules

Each module has a unique serial number. Go to www.modulowo.com/list, enter the serial number and add the module to your list. This will allow quick access to the documentation and software.

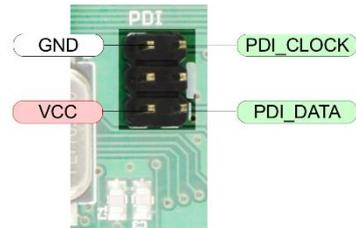
Schematic:



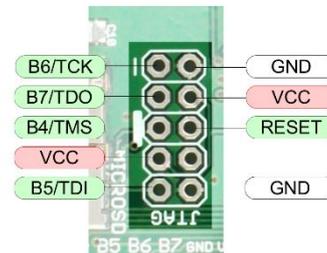
Pinouts:



PDI



JTAG



VSEL (VUSB)

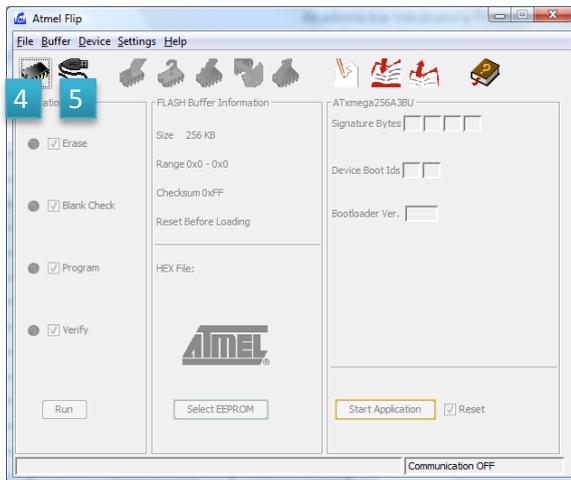


VSEL (VIN)



Note! VSEL Jumper is used to set the power supply module. The module can be powered from the USB connector or VIN connector.

Software:



1. Connect the development kit to your computer via USB

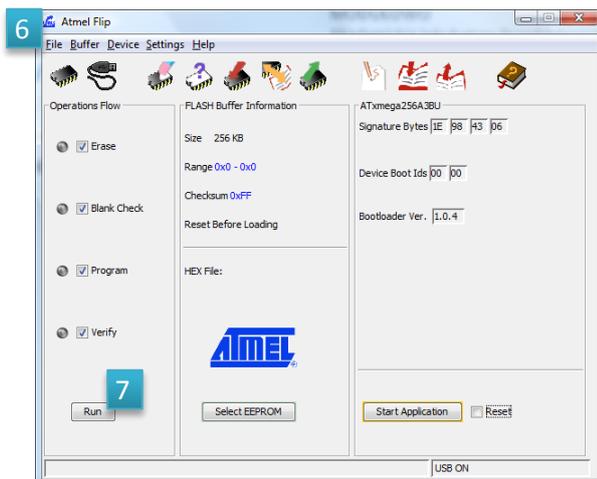
(Note! If this is the first connection, the system asks for the drivers, which are located in the folder with the Atmel® Flip software)

2. Press the buttons Boot and Reset located on the Xmega eXplore.

3. Run the program Atmel® Flip.

4. Click the first icon to select the position of ATXmega256A3BU.

5. Click the second icon, depicting the USB connector (keyboard shortcut CTRL + U), you will see a window where you select Open. Window should change the appearance, as shown below.



This means that the Xmega eXplore is detected and connected to.

6. Select File -> Load HEX File .. and indicate where the application you want to upload.

7. We press Run.

8. After downloading the application, click Start Application, the microcontroller starts the application.

Tip! The next uploading software, no need to restart the program and choose the type of microcontroller. Simply, press the Boot and Reset on the module, then the keyboard shortcut CTRL + U to open the connection and press the Run button to upload the next version of the application.

Note! Pressing the Boot and Reset allows you to upload the application. Normally, when the power or press the Reset button will start an application.