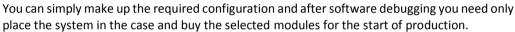


mikroBUS SAM21



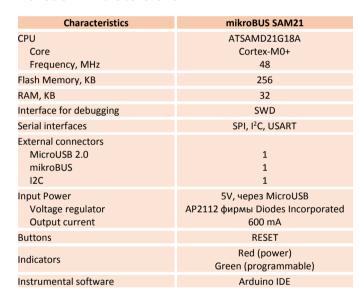
One of the most popular microcontrollers is SAMD21. It is a powerful CPU with the Cortex M0+ architecture. Module **mikroBUS SAM21** is the world's smallest development board with this popular CPU, designed in the mikroBUS format and having mikroBUS slot and I2C bus through Grove Systems connector.

mikroBUS SAM21 makes it easy to implement various projects. This board add the CPU power of ATSAMD21G18A to expansion modules with mikroBUS interface, Grove Systems peripherals (sensors and actuating devices) and any I2C modules. It is no longer necessary build trial system and then think at first, how make a prototype, and then - how to set up a serial production.

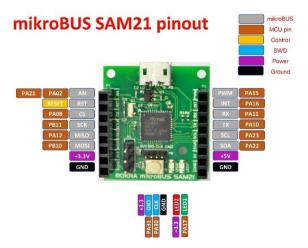


The size of the **mikroBUS SAM21** is 28.6 x 25.4 mm.

The main characteristics of mikroBUS SAM21 are as follows:



Matching of **mikroBUS SAM21** pins and ATSAMD21G18A pins is shown in the next table (the choice between PA02 and PA21 is made by a jumper):



The Grove I2C connector is located on the bottom side of the module.

MikroElekronika (www.mikroe.com) produces numerous modules with the mikroBUS interface - modules Click®:



Attention! mikroBUS SAM21 is compatible with Click® modules using 3.3V, compatibility with 5V Click® modules not guaranteed.

Connect to your **mikroBUS SAM21** one of the wireless communication boards, LED or OLED control boards, stepper motor control and much, much more. Almost everything that may be required for your project, already exist in the range of modules with mikroBUS interface.

Any modules controlled via I2C bus can be connected through I2C connector, for example - manufactured by us in BOKRA:



I2C 8DI Pro - Digital input module

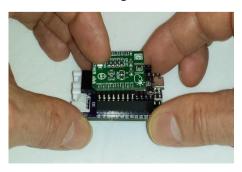


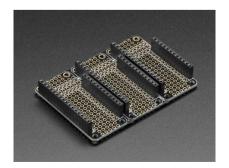
I2C 2RO+2DO Pro –Relay and Digital Output module

It is very easy connect **mikroBUS SAM21** through the I2C with numerous sensors, peripherals and modules from Grove Systems.



Module **mikroBUS SAM21** together with several modules with the mikroBUS interface can form stackable or flat structures:





The delivery set of **mikroBUS SAM21** includes two of headers to form a mikroBUS slot. Before connecting modules to the mikroBUS interface, these headers should be soldered into **mikroBUS SAM21**. When ordering, it is also possible to specify an option to solder this headers in **mikroBUS SAM21**.