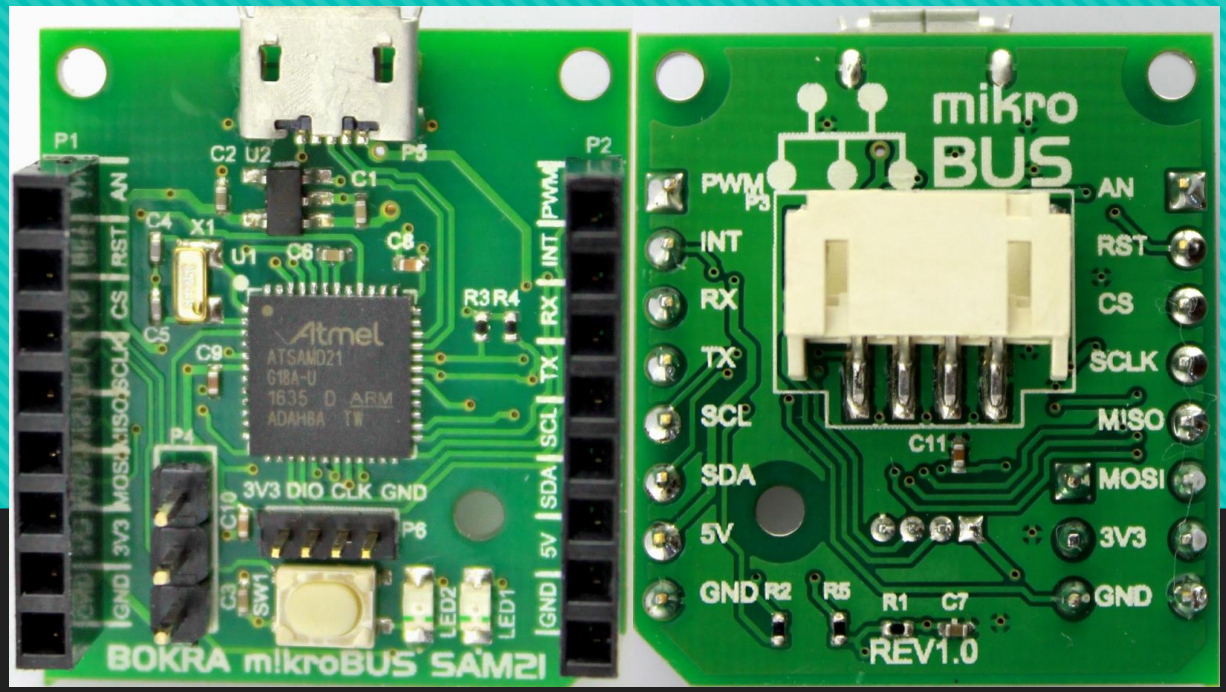
mikroBUS SAM21



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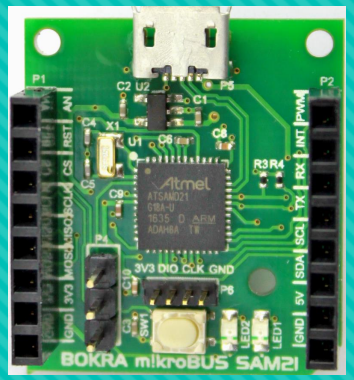
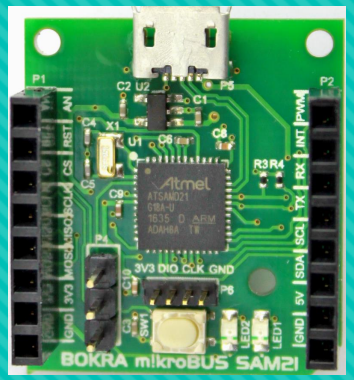
mikroBUS SAM21 is:



1

The world's first System on Module with mikroBUS form-factor

mikroBUS SAM21 is:



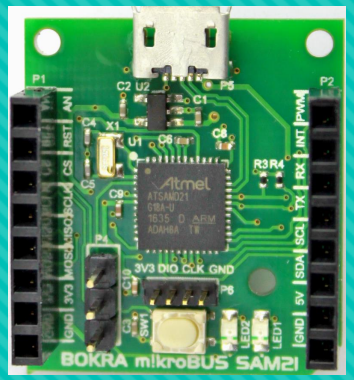
1

The world's first System on Module with mikroBUS form-factor

2

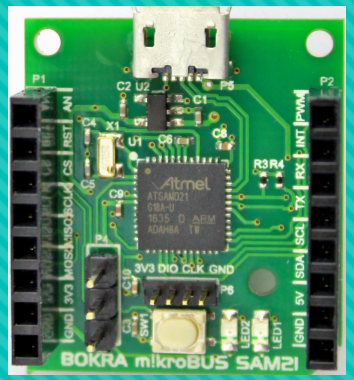
The first System on Module with mikroBUS on the Arduino compatible ATSAMD21G18A

mikroBUS SAM21 is:



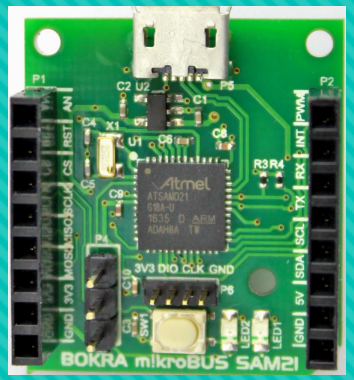
1. **The world's first System on Module with mikroBUS form-factor**
2. **The first System on Module with mikroBUS on the Arduino compatible ATSAMD21G18A**
3. **The smallest (28.6 x 25.4 mm) System on Module with mikroBUS**

Easy create and product:



All mikroBUS SAM21 users can easy create compact application solutions and instantly overcome the barrier between prototype and factory production stage of their device.

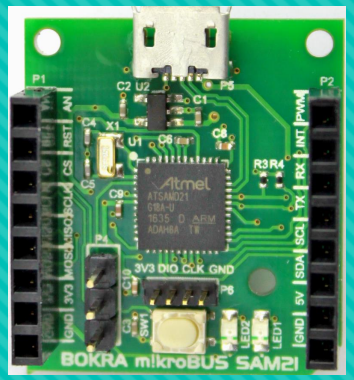
Easy create and product:



All mikroBUS SAM21 users can easy create compact application solutions and instantly overcome the barrier between prototype and factory production stage of their device.

Now users will have the opportunity to apply any of more than 300 expansion modules with mikroBUS in their developments based on ATSAMD21G18A.

Easy create and product:



All mikroBUS SAM21 users can easy create compact application solutions and instantly overcome the barrier between prototype and factory production stage of their device.

Now users will have the opportunity to apply any of more than 300 expansion modules with mikroBUS in their developments based on ATSAMD21G18A.

This board add the CPU power of Microchip ATSAMD21G18A to expansion modules with mikroBUS interface, Grove Systems peripherals (sensors and actuating devices) and any I2C modules.

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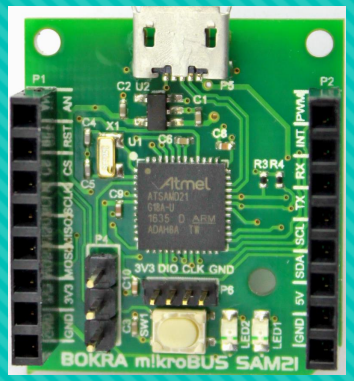
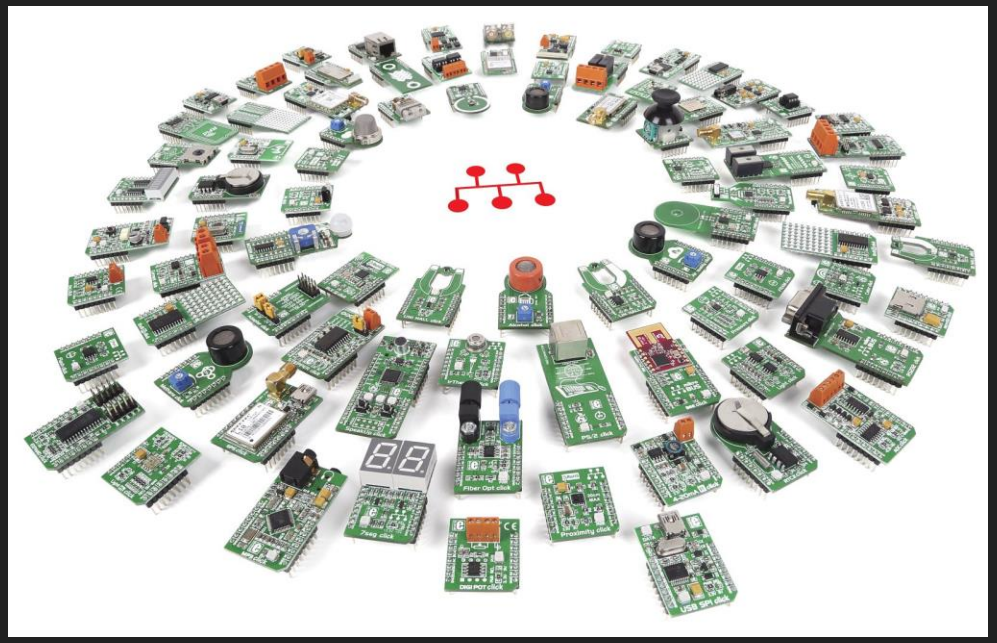
mikroBUS modules:



MikroElektronika produces numerous modules with the mikroBUS interface - modules Click®. Connect to your mikroBUS SAM21 one of the wireless 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.



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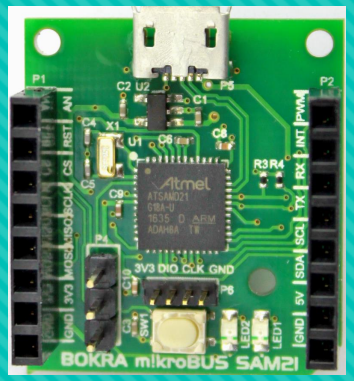
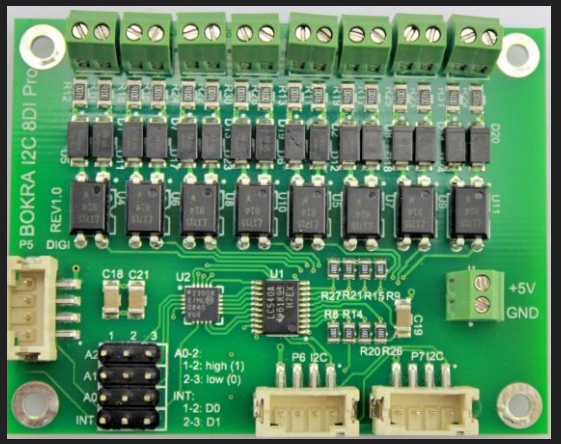
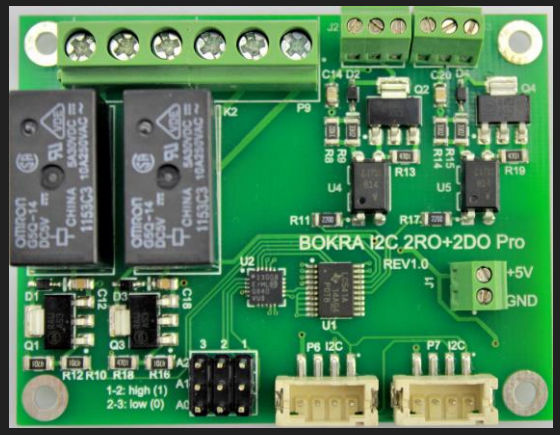
I2C modules:



Any modules controlled via I2C bus can be connected through I²C connector.
For example – BOKRA IO modules:

- I2C 8DI Pro - Digital Input module
- I2C 2RO+2DO Pro – Relay and Digital Output module





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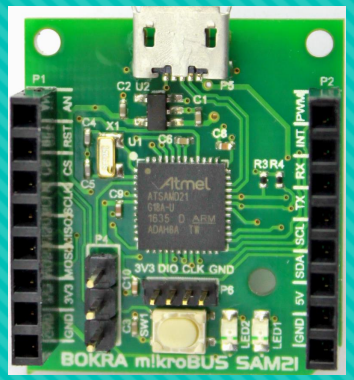
Grove modules:



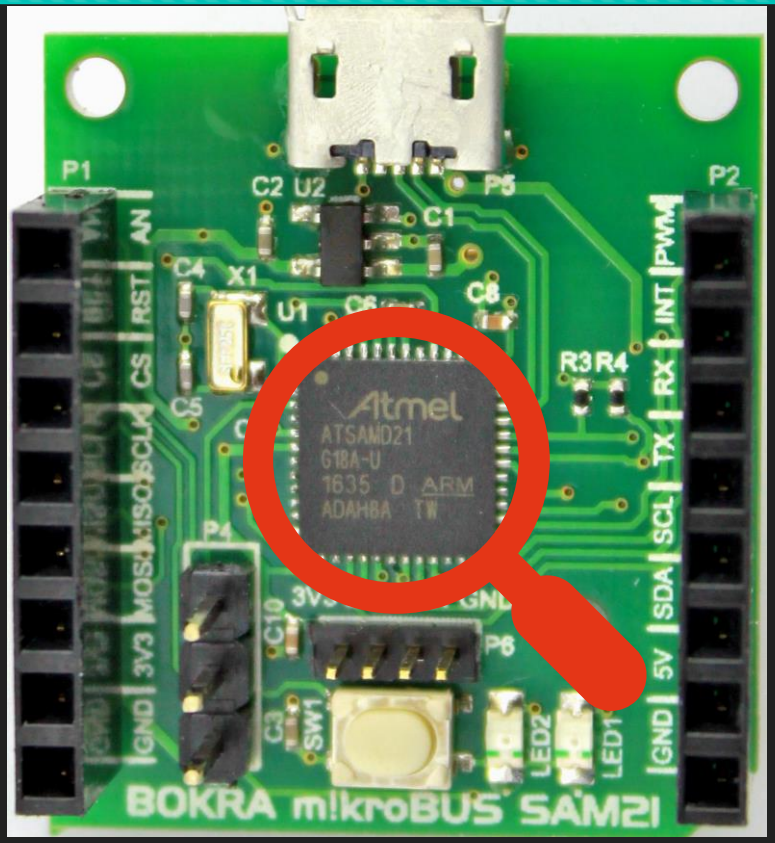
It is very easy connect mikroBUS SAM21 through the I2C with numerous sensors, peripherals and modules from Grove Systems.

Specification:

CPU - ATSAMD21G18A

Cortex-M0+

48 MHz



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Specification:

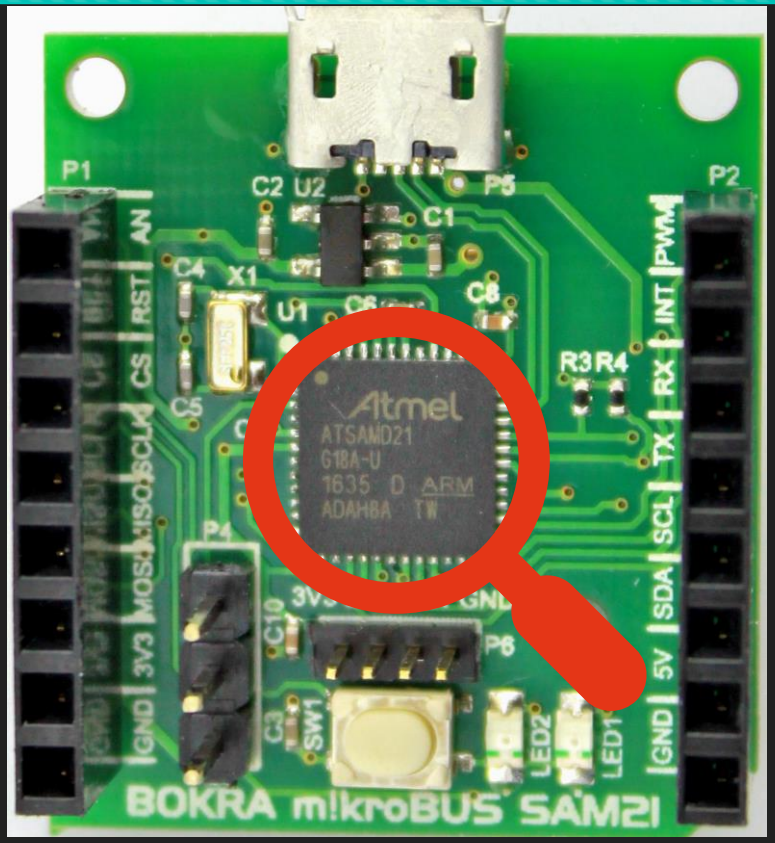
CPU - ATSAMD21G18A

Cortex-M0+

48 MHz

256 KB Flash Memory

32 KB RAM



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Specification:

CPU - ATSAMD21G18A

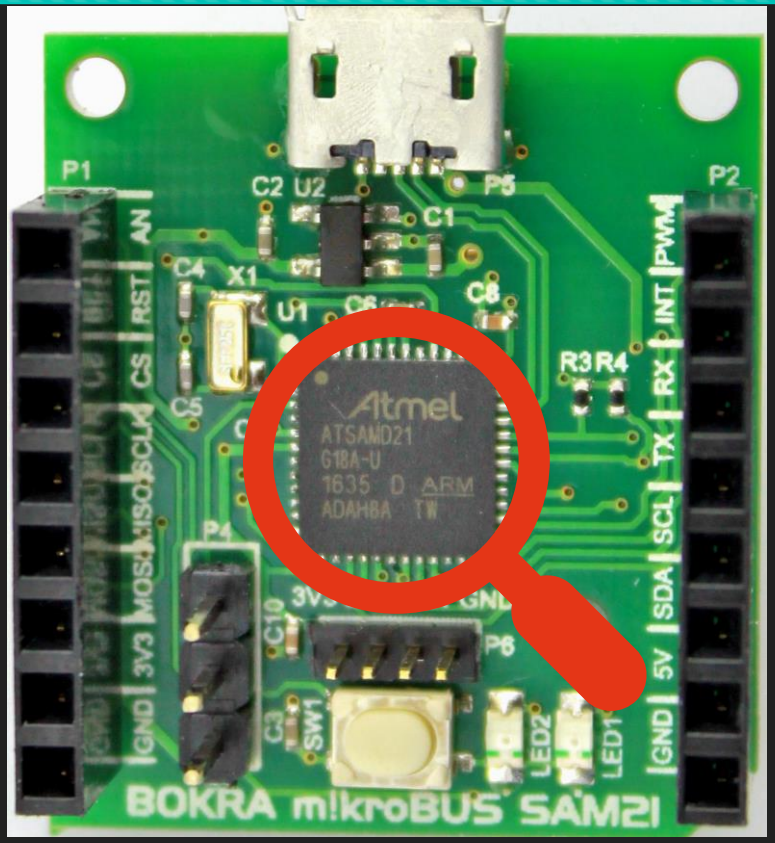
Cortex-M0+

48 MHz

256 KB Flash Memory

32 KB RAM

12 DMA channel



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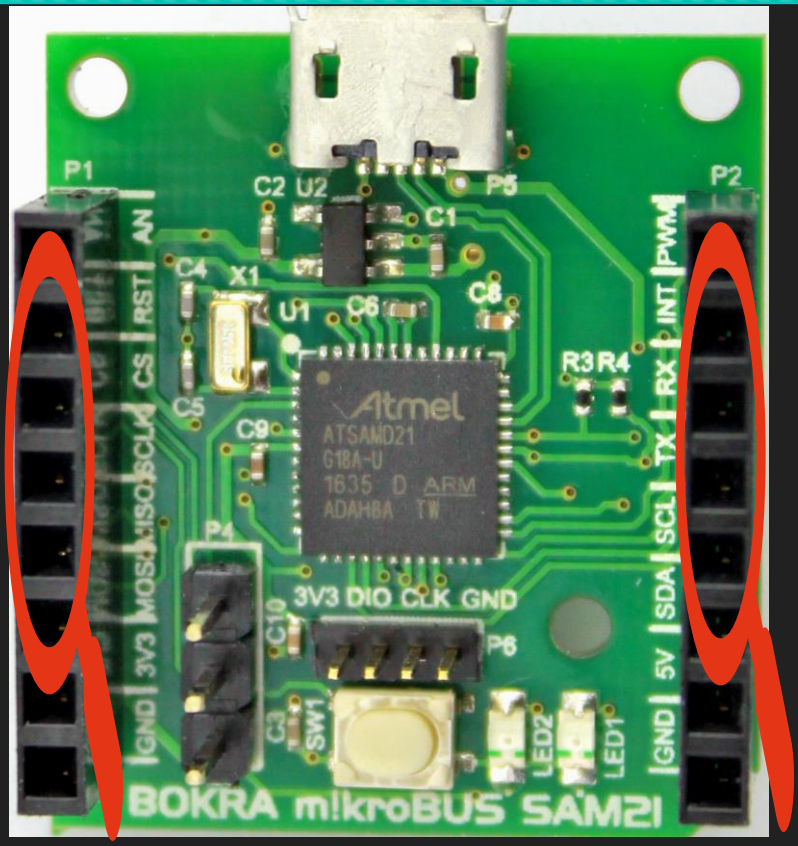
Specification:

mikroBUS connector



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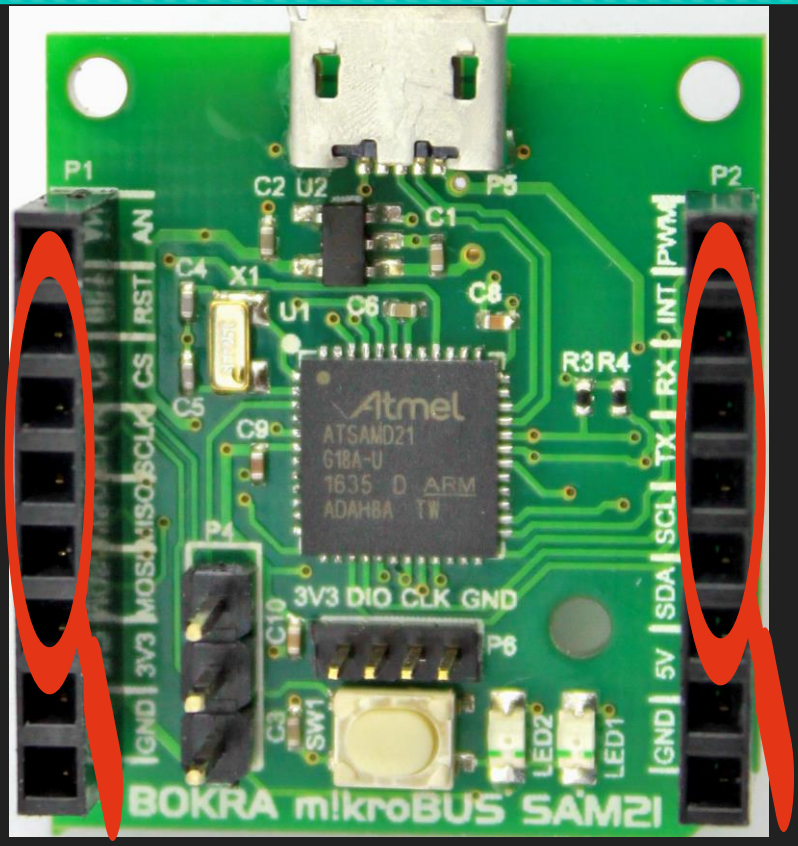
Specification:

mikroBUS connector

- SPI
- I2C
- UART



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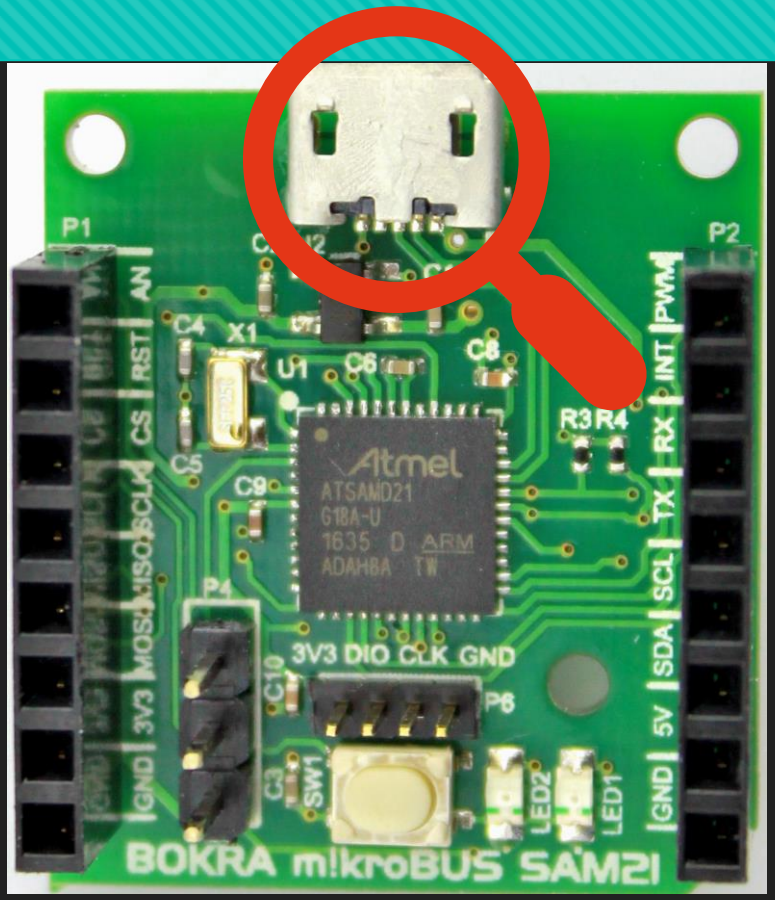
Specification:

MicroUSB 2.0 connector



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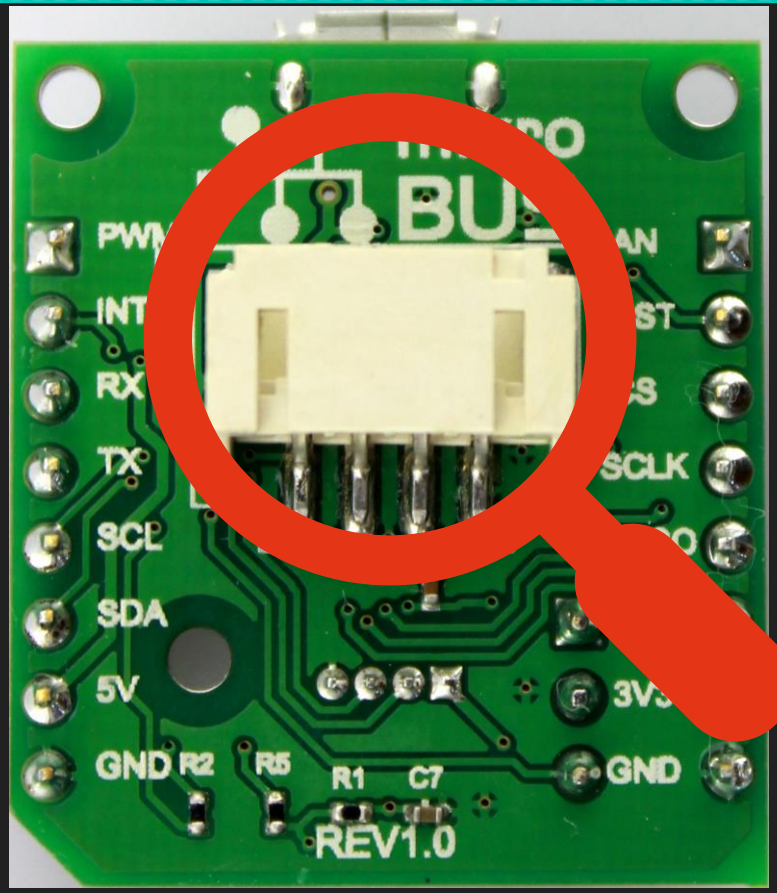
Specification:

Grove I2C connector



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Thank You !

Learn more about mikroBUS SAM21 on Crowd Supply

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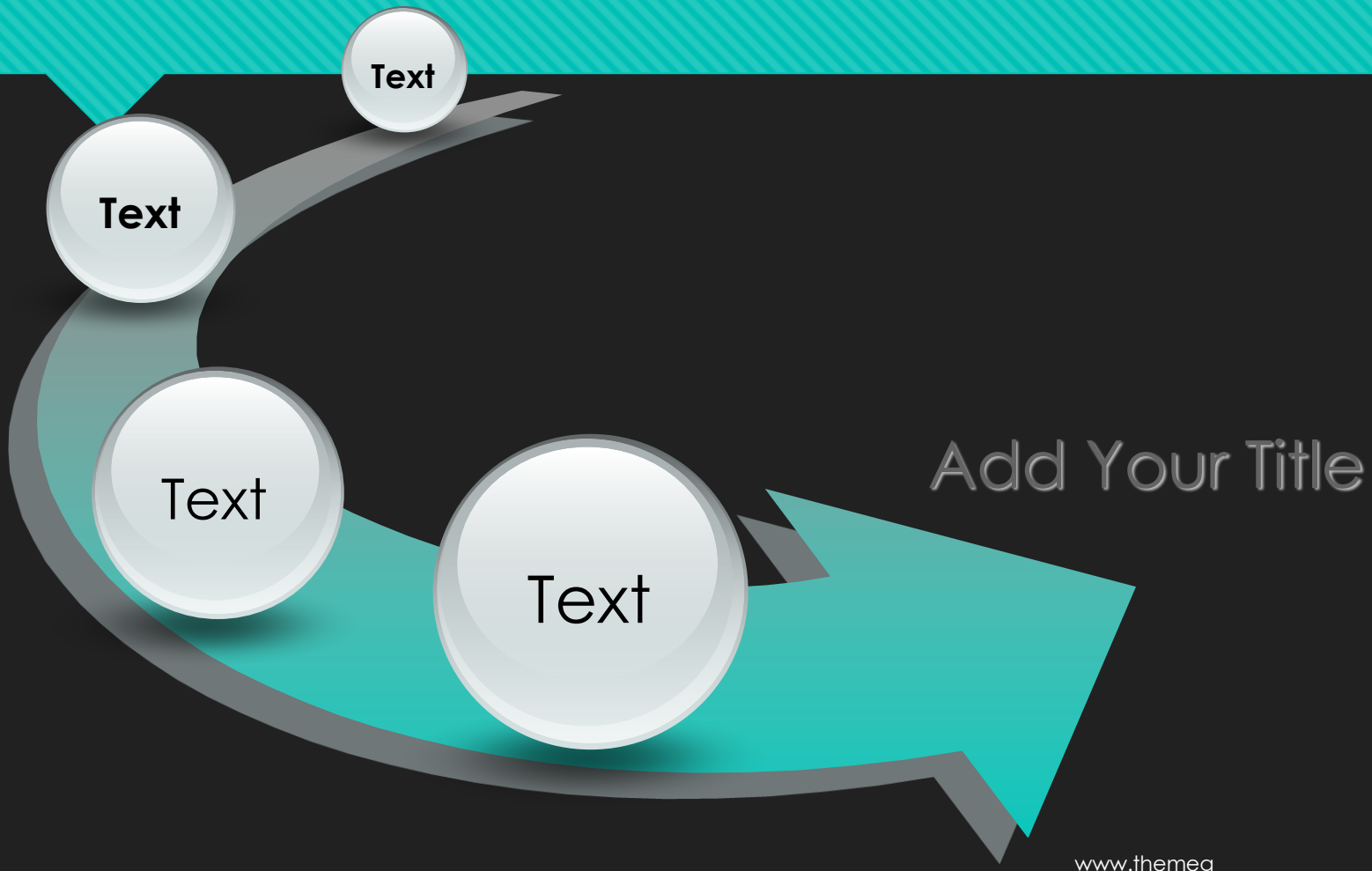
Diagram