

## Scanner Click



PID: MIKROE-4108

Scanner Click as his name said, is an optical scanner expansion board for building optical cost-sensitive scanners and printers. The main component of this board is a 102 pixels linear optical array sensor marked TSL3301CL from AMS. For accessing sensor registers from any host controller communication is accomplished through a three-wire SPI high speed serial interface. This linear optical sensor provides high density pixel count and integrated analog-to-digital conversion to the Scanner click, and also enables high resolution scanning and scalable operating range. This Click board™ is most suitable for the applications like scanners, printer edge detect and optical character recognition.

Scanner Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.  
 ISO 14001: 2015 certification of environmental management system.  
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

## Specifications

Type	Optical
Applications	Can be used for applications like scanners, printer edge detect and optical character recognition.
On-board modules	Scanner Click uses the TSL3301CL IC, 102 x 1 linear optical sensor array with onboard A/D conversion from AMS-AG.
Key Features	High density 102 pixel count and integrated analog-to-digital conversion sensor, with high resolution scanning of 300dpi and scalable operating range
Interface	SPI
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

## Resources

[mikroBUS™ Standard specification](#)

[Libstock: mikroSDK](#)

[Click board catalog](#)

[Click boards™ Standard Page](#)

## Downloads

[Scanner click example on Libstock](#)

[Scanner click 2D and 3D files](#)

[TSL3301 datasheet](#)

[Scanner click schematic](#)

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