MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia VAT: SR105917343 Registration No. 20490918

Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com

Smoke 2 Click





PID: MIKROE-4299

Smoke 2 Click is a compact add-on board that contains the most efficient version of the smoke detector. This board features the <u>ADPD188Bl</u>, a complete photometric system for smoke detection using optical dual-wavelength technology from <u>Analog Devices</u>. The module combines the dual photodetector with two separate LEDs and a mixed-signal photometric frontend ASIC, housed in a package that prevents light from going directly from the LED to the photodiode, without first entering the smoke detection chamber. It supports both an SPI and I2C serial interface, although only one is allowed at any given time in the actual application. This Click board™ is suitable for application as smoke detector that is more architecturally compatible for residential and commercial use.

Smoke 2 Click is supported by a $\underline{\mathsf{mikroSDK}}$ compliant library, which includes functions that simplify software development. This $\underline{\mathsf{Click}}$ board $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$ comes as a fully tested product, ready to be used on a system equipped with the $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$ 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.





health and safety management system.



MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com

www.mikroe.com

Specifications

Туре	Optical
Applications	Can be used for application as smoke detector that is more architecturally compatible for residential and commercial use.
On-board modules	ADPD188BI - complete photometric system for smoke detection using optical dual-wavelength technology from Analog Devices ADP160 - small regulating LDO from Analog Devices ADG3308 - bidirectional level translator containing eight bidirectional channels from Analog Devices LTC3531 - synchronous buck-boost DC/DC converter from Analog Devices LTC3459 - synchronous boost converter from Analog Devices
Key Features	Low power consumption, high precission, integrates a highly efficient photometric front end, two light emitting diodes, and two photodiodes, equipped with smoke detection chamber, optimized SNR for signal limited cases, and more.
Interface	I2C,SPI
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V,5V,External

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

Smoke 2 click 2D and 3D files

Smoke 2 click example on Libstock

ADG3308 datasheet

ADPD188BI datasheet

Smoke 2 click schematic

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.





health and safety management system.



MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com

www.mikroe.com

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.







