

Time-saving embedded tools

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

DAQ Click





PID: MIKROE-4495

DAQ Click is a compact add-on board representing a data acquisition solution. This board features the <u>ADAO7768-1</u>, a 24-bit precision data acquisition (DAQ) µModule system that encapsulates signal conditioning, conversion, and processing blocks into one SiP from <u>Analog</u> <u>Devices</u>. It supports a fully differential input signal with a maximum voltage range of ±12V with an excellent common-mode rejection ratio (CMRR). The input signal is fully buffered with a low input bias current, enabling the ADAQ7768-1 to interface to sensors with high output impedance directly. Also, it comes with a selectable clock source and programmable gain options, output data rate, filter type, and latency configurable through an SPI serial interface. This Click board[™] is suitable as a universal input measurement platform for electrical tests and measurements, condition monitoring for predictive maintenance, and many other applications.

DAQ Click is supported by a <u>mikroSDK</u> compliant library, which includes functions that simplify software development. This <u>Click board</u> $\stackrel{\text{mikroSDK}}{\longrightarrow}$ comes as a fully tested product, ready to be used on a system equipped with the <u>mikroBUS</u> 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. OHSA5 18001: 2008 certification of occupational health and safety management system.



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



Time-saving embedded tools

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	ADC
Applications	Can be used as a universal input measurement platform for electrical tests and measurements, condition monitoring for predictive maintenance, and many other applications
On-board modules	ADAQ7768-1 - 24-bit precision data acquisition µModule system that encapsulates signal conditioning, conversion, and processing blocks into one SiP from Analog Devices
Key Features	Highly integrated data acquisition solution, programmable gain options, combined precision AC and DC performance, low-noise, programmable output rate, filter type and latency, SPI interface, low power consumption, and more
Interface	SPI
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V

Resources

<u>mikroBUS</u>™

<u>mikroSDK</u>

Click board[™] Catalog

Click boards[™]

Downloads

ADAQ7768-1 datasheet

ADA4807-1 datasheet

ADP2300 datasheet

ADR4540 datasheet

DAQ click 2D and 3D files

DAQ click schematic

LT3095 datasheet

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).



Time-saving embedded tools

DAQ click example on Libstock

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.



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).