

Dot Matrix R Click



PID: MIKROE-4169

Dot Matrix R Click is a display device Click board™ based on a four-digit dot matrix display module, labeled as HCMS-3906. The module holds four 5x7 dot matrices, with very closely spaced, bright red pixel elements. Characters are very clearly displayed as a result. Pixels emit a bright red color when lit, which makes the display readable in any condition. Each display can be directly interfaced with a microprocessor, thus eliminating the need for cumbersome interface components. The serial IC interface allows higher character count information displays with a minimum of data lines. The easy to read 5x7 pixel format allows the display of upper case, lower case, Katakana, and custom user-defined characters. The bright red display matrix has a wide viewing range, which makes it perfectly suited for low light situations.

Dot Matrix R 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	LED Matrix
Applications	Dot Matrix R click allows simple and fast development of various applications, which require displaying of characters, numbers, or both.
On-board modules	Dot Matrix R click uses the HCMS-3906, a high performance, easy to use alphanumeric display, from Broadcom Limited.
Key Features	Easy to use four-digit 5x7 dot matrix display with dense and brightly lit pixel elements, interfaced directly with the microprocessor, serial input, convenient brightness controls.
Interface	GPIO,SPI
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™ Standard specification](#)

[LibStock: mikroSDK](#)

[Click board catalog](#)

[Click boards™ Standard Page](#)

Downloads

[Dot Matrix R click 2D and 3D files](#)

[HCMS-3906 datasheet](#)

[Dot Matrix R click schematic](#)

[Dot Matrix R click example on Libstock](#)

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