



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

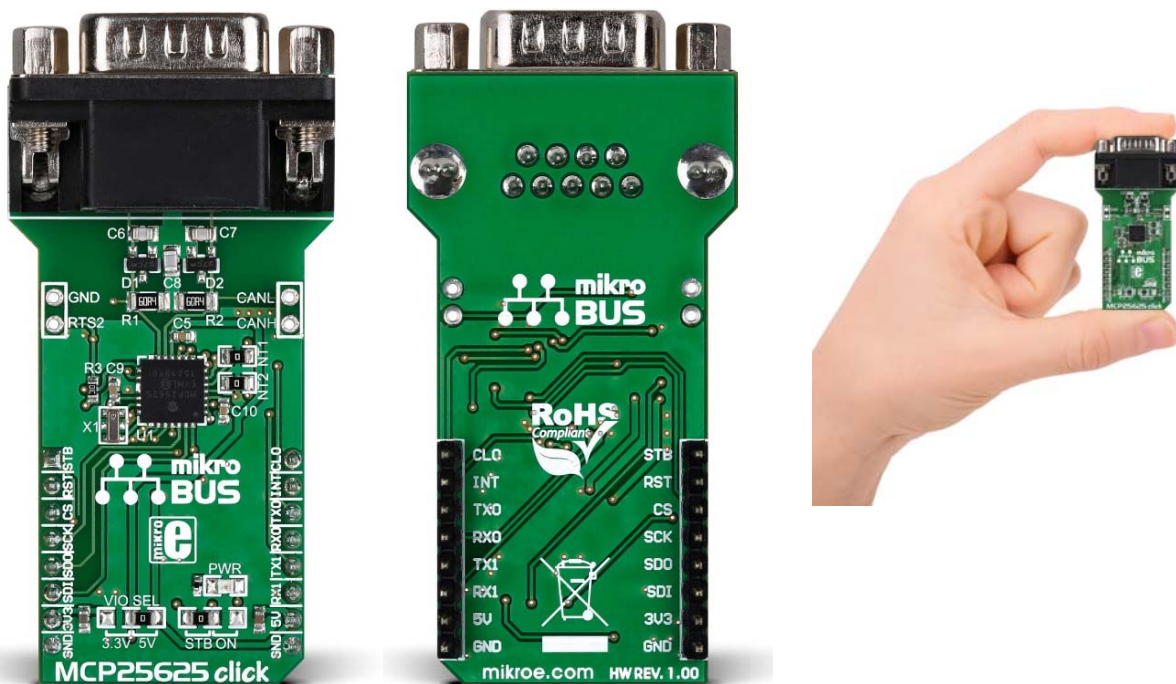
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



MCP25625 click

PID: MIKROE-2228

Weight: 33 g



MCP25625 click is a mikroBUS™ add-on board carrying a Microchip CAN controller with an integrated transceiver. It meets the automotive requirement for high speed operation (up to 1 Mb/s).

Named after the main chip, MCP25625 click also has a RS232 port, which is a standard connector for CAN communications. Additionally, the two CAN wires (CANL and CANH) can also be connected directly through two pins on the right edge of the board.

The click communicates with the target MCU through the SPI interface — although there are additional options that take the load off the target board MCU. To that end, all 16 mikroBUS™ pins are connected. There's a clock output, a Request To Send, an Interrupt, standby, reset and more. MCP25625 click can work with both 3.3V or 5V logic levels.

Type	CAN
Applications	MCP25625 click also with RS232 port allows CAN communications
On-board modules	Microchip CAN controller
Key Features	Operating speeds up to 1 Mb/s, SPI interface (up to 10 MHz Clock speed) with additional pins
Key Benefits	Interface with a lot of options to offloads target board MCU, Meets requirements of automotive industry (speed, EMC, ESD)
Interface	SPI
Power Supply	3.3V or 5V
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)

MCP25625 click is a mikroBUS™ add-on board carrying a Microchip CAN controller with an integrated transceiver. It meets the automotive requirement for high speed operation (up to 1 Mb/s).

Features and usage notes

MCP25625 click has two pairs of onboard jumpers (zero ohm resistors). One is for choosing the IO voltage. The other is for configuring whether the STB pin will be used to control the click's operating mode (normal or standby), or if it will go into normal mode as soon as it's powered up.

Here's a list of key features of MCP25625, taken from the data sheet:

General Features:

- Stand-Alone CAN2.0B Controller with Integrated CAN Transceiver and Serial Peripheral Interface (SPI)
- Up to 1Mb/s Operation
- Very Low Standby Current (10 μ A, typical)
- Up to 10 MHz SPI Clock Speed
- Temperature Ranges:
 - Extended (E): -40°C to +125°C

CAN Controller Features:

- Implements CAN2.0B(ISO11898-1)
- Three Transmit Buffers with Prioritization and Abort Feature
- Two Receive Buffers
- Six Filters and Two Masks, with Optional Filtering on the First Two Data Bytes
- Supports SPI Modes 0,0 and 1,1
- Specific SPI Commands to Reduce SPI Overhead
- Buffer Full, and Request-to-Send Pins Configurable as General Purpose I/O
- One Interrupt Output Pin

Programming

The following code snippet shows how to change the device's operating mode and checks the status register for confirmation.

```
1 int mcp25625_mode
2 (
3     can_opmode_t mode
4 )
5 {
6     can_ctl.reqop = mode;
7     can_ctl.mask = CAN_REQOP;
8
9     mcp25625_hw_ctl_update( ( void* )&can_ctl );
10
11     if( mcp25625_hw_ctl_get( ( void* )&can_stat ) )
12         if( can_stat.opmod != mode )
13             return MCP25625_CTL_ERR;
14
15     return MCP25625_OK;
16 }
```

Code examples that demonstrate the usage of MCP 25625 click with MikroElektronika hardware, written for mikroC for PIC are available on [Libstock](#).