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

GNSS click™

1. Introduction

GNSS click™ carries **Quectel's L86 GNSS module** with a patch antenna along with an external antenna connector. GNSS stands for **global navigation satellite system**, a term which encompasses both the United States **GPS** and the Russian **GLONASS** global positioning systems. The board communicates with the target MCU through **mikroBUS™ UART (TX, RX), CS** [used here for FON], and **RST** pins. The board uses a 3.3V power supply only. A **V_BAT connection** pad for a backup power supply is also available.

2. Soldering the headers

Before using your click™ board, make sure to solder 1x8 male headers to both left and right side of the board. Two 1x8 male headers are included with the board in the package.
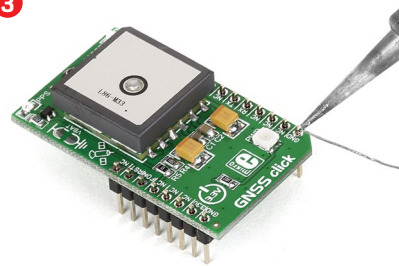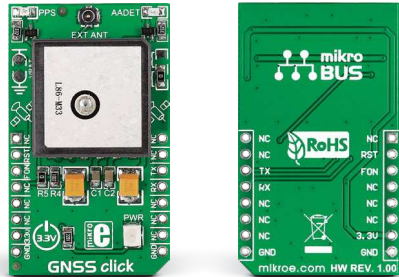
❶

❷
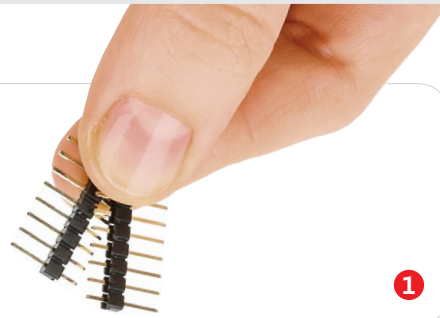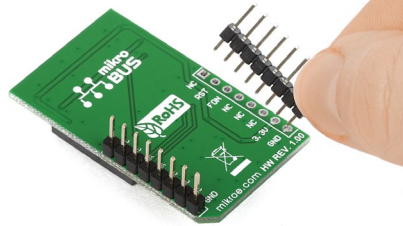
Turn the board upside down so that the bottom side is facing you upwards. Place shorter pins of the header into the appropriate soldering pads.

❸
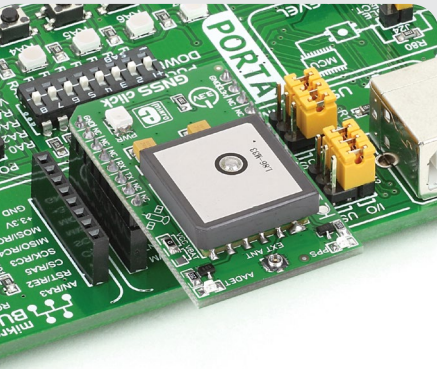
Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.

3. Plugging the board in

Once you have soldered the headers your board is ready to be placed into the desired mikroBUS™ socket. Make sure to align the cut in the lower-right part of the board with the markings on the silkscreen at the mikroBUS™ socket. If all the pins are aligned correctly, push the board all the way into the socket.
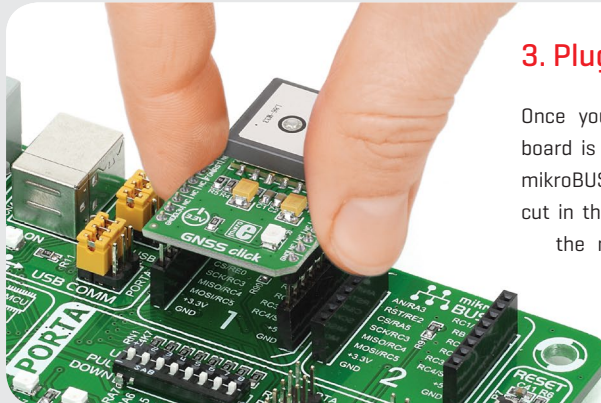
4. Essential features

GNSS click™ shares the same form factor of Quectel's L80 module which [used on GPS3 click™] and the same set of technologies: automatic prediction of orbits from data stored in internal flash [**EASY™** technology]; and adaptive adjusting of on/off time to balance between positioning accuracy and power consumption [**AlwaysLocate™** technology]. The module can also automatically switch between the internal patch antenna and external active antenna, keeping track of positioning during the switching process.

click™
BOARD
www.mikroe.com

GNSS click™ manual
ver 1.00

0100000074855

5. Schematic
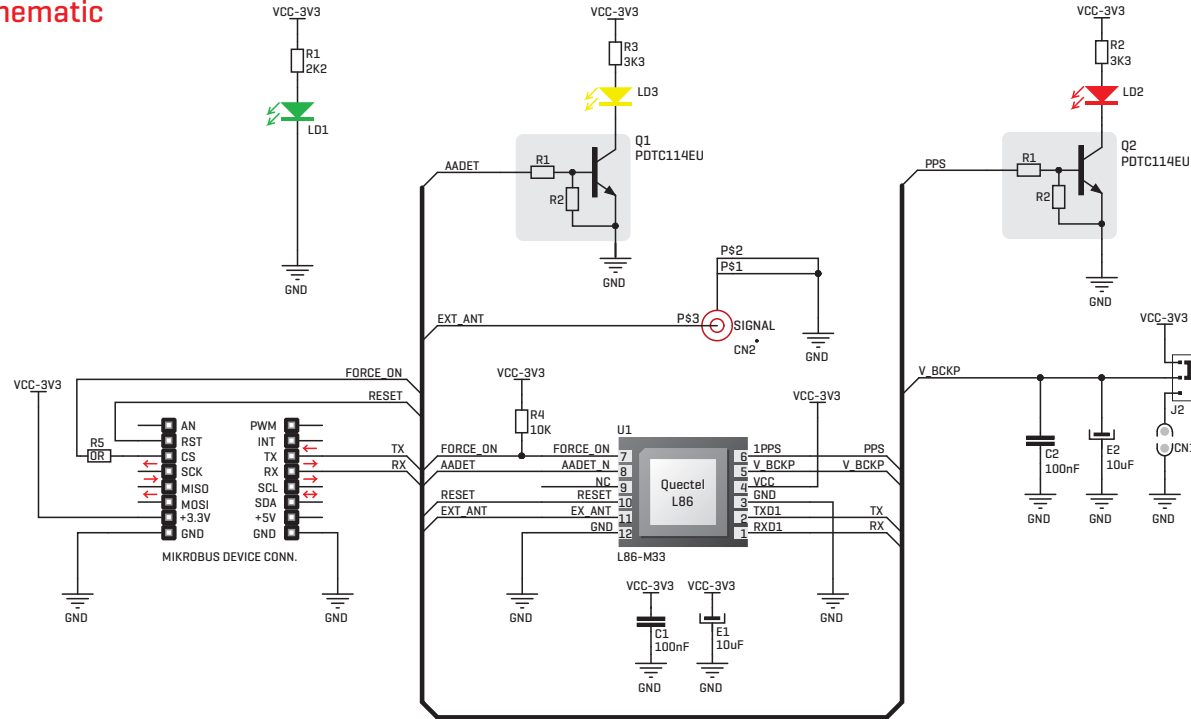
6. Dimensions

42.9 mm / 1690 mils
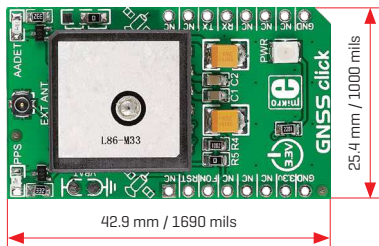
	mm	mils
LENGTH	42.9	1690
WIDTH	25.4	1000
HEIGHT*	8.6	388.6

* without headers

7. External antenna connector

GNSS click™ has a connector for an external active antenna that could be used alongside, or instead of the patch antenna that's already on the module. To get one, search for "GPS antenna" at **www.mikroe.com/store**