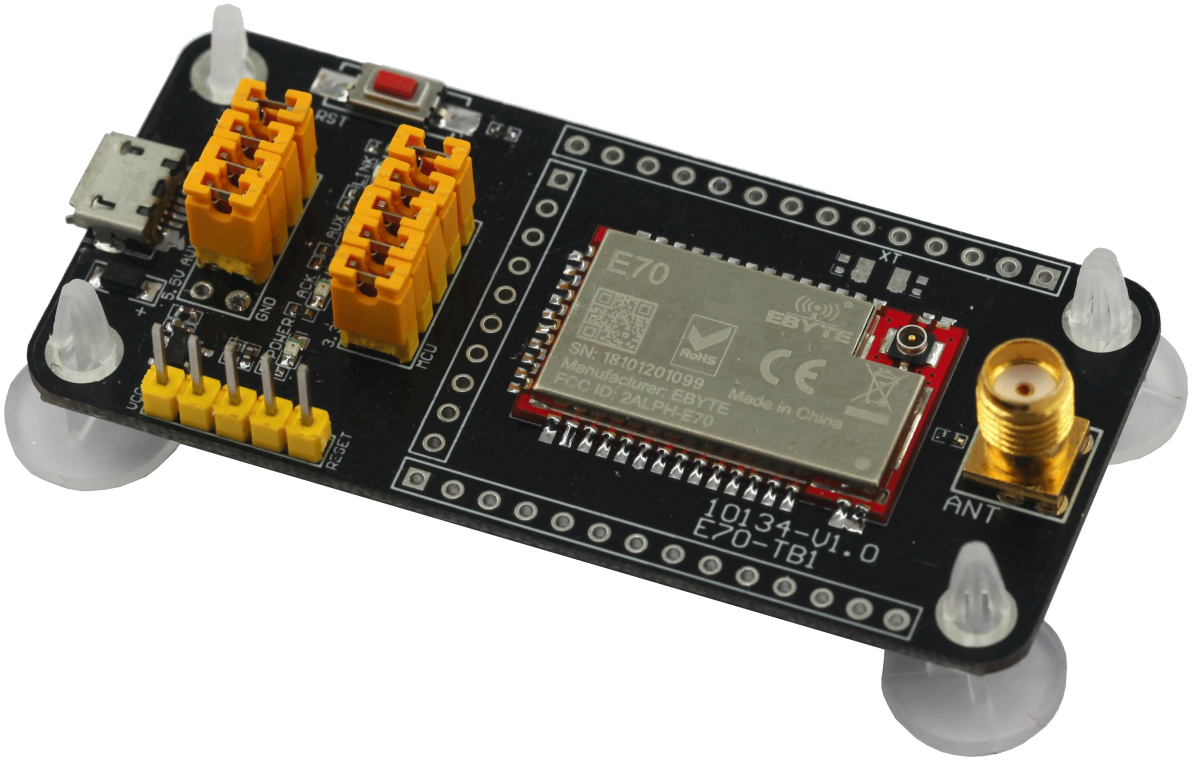
成都亿佰特电子科技有限公司
Chengdu Ebyte Electronic Technology Co.,Ltd.

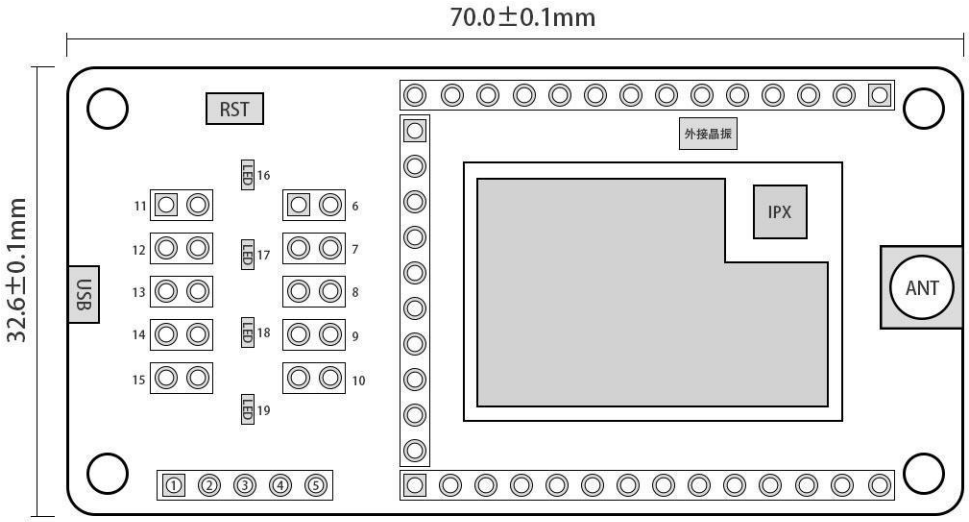
E70-433TBL-01 Datasheet v1.0

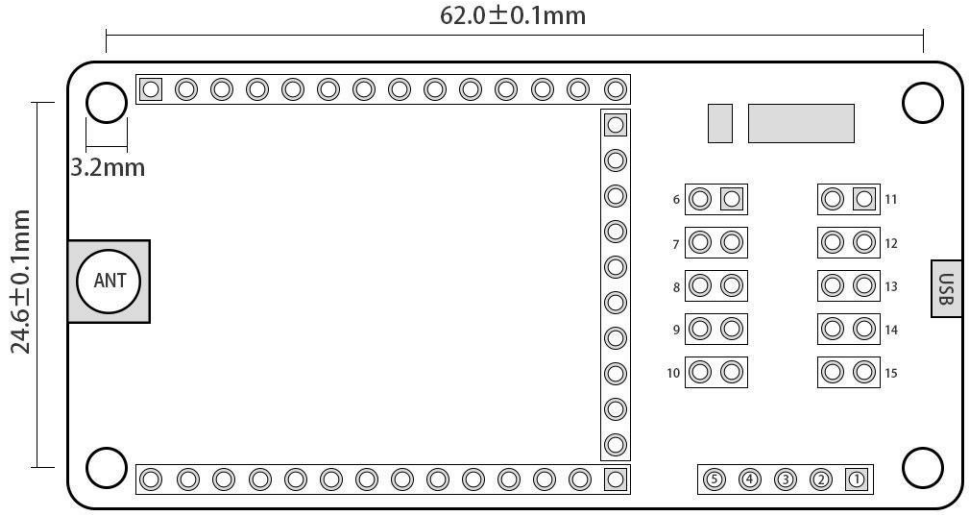
1. Introduction



1. This test kit is for testing and development of E70 series module(1 E70-433T14S、E70-868T14S、E70-915T14S). E70-433T14S has been pre-welded on the test board, please refer to the E70-433T14S module manual for detailed use.
2. All IOs of E70 series wireless module have been exported.
3. With CH340G serial chip, the module can be developed via serial communication.
4. With MICRO-USB interface, the test kit can be directly plugged into the computer for development.
5. User can connect external power and serial port for secondary development.
6. Stable work and easy to develop.

Instructions for use





No.	Pin	Pin definition	Notes
1	VCC	Connect to VCC of the downloader for downloading.	Download port
2	GND	Connect to GND of the downloader for downloading.	
3	TMSC	Connect to TMSC of the downloader for downloading.	
4	TCKC	Connect to TCKC of the downloader for downloading.	
5	RESET	Connect to RESET of the downloader for downloading.	
6	M2	M2 mode selection port, plug in the jumper then M2=0, vice versa	Mode selection port
7	M1	M1 mode selection port, plug in the jumper then M1=0, vice versa	Mode selection port

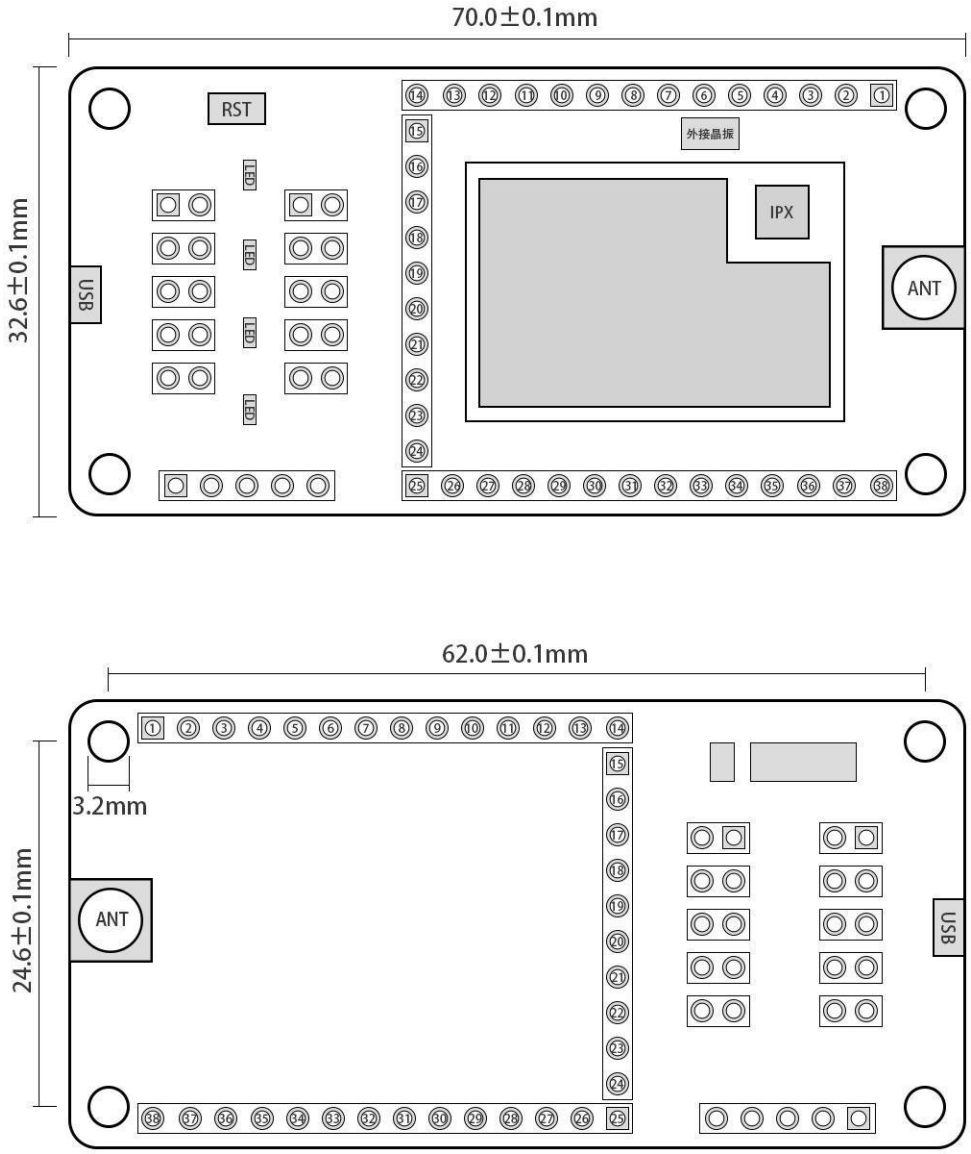
8	M0	M0 mode selection port, plug in the jumper then M0=0, vice versa	Mode selection port
9	ACK	ACK light selection port, plug in jumper to connect ACK light	There is no ACK indication function for E70-433T14S, E70-868T14S and E70-915T14S, pls remove the jumper

10	3.3V-MCU	The port for testing current of E70 module, plug in jumper, E70 module power on.	Pls unplug ACK light, AUX light and link light selection port when testing current.
11	TXD	Serial port TXD selection end, plug in jumper, then TXD of USB serial port connect to RXD of the module. Users can use the serial port for other purposes.	
12	RXD	Serial port RXD selection end, plug in jumper, then RXD of USB serial port connect to TXD of the module. Users can use the serial port for other purposes.	
13	LINK	LINK light selection port, plug in jumper then ACK light connected.	There is no LINK indication function for E70-433T14S, E70-868T14S and E70-915T14S, pls remove the jumper
14	AUX	AUX light selection port, plug in jumper to connect AUX light	
15	+5VIN	5V external power supply access port, if you do not want to use USB power supply, you can connect an external power supply (+5V and GND)	Do not reverse.
16	LINK light	Network access indicator, this light is on when the module is successfully connected to the network.	Indicator light
17	AUX light	Module idle indicator, this light is on when the module is idle	
18	ACK light	Module sending status indicator, this light is on when the module is sending.	
19	POWER灯	Power indicator light, this light is on when the power supply of the baseboard is connected	

Remarks:

The E70 module is designed with crystal oscillator inside, and the user can also connect an external crystal oscillator (the external crystal oscillator pad has been left.)

Pin definition



E70-433TBL-01 (positive) pin definition

Pin no.	Pin	Notes
1	GND	
2	GND	
3	DO_1	
4	DO_2	
5	DO_3	
6	DO_4	
7	DO_5	

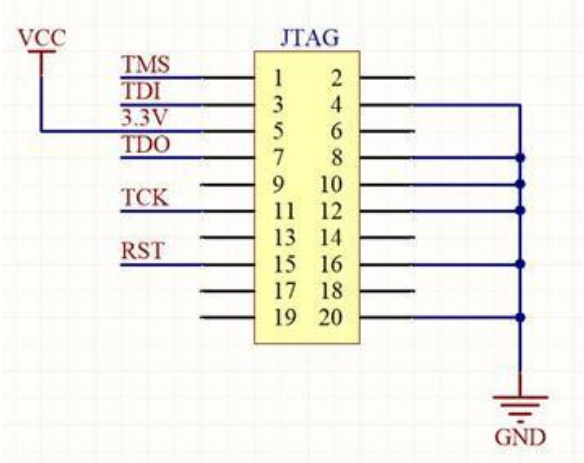
8	DO_6	
9	DO_7	
10	DO_8	
11	DO_9	
12	DO_10	
13	DO_11	M2 mode pin
14	GND	
15	DO_12	M0 mode pin
16	DO_13	M1 mode pin
17	DO_14	The UART_RX pin of E70 module
18	DO_15	The UART_TX pin of E70 module
19	DO_16	
20	DO_17	
21	DO_18	AUX PIN
22	VCC	Power supply（+3.3V）
23	GND	
24	DO_19	
25	DO_20	
26	DO_21	
27	DO_22	
28	RESET	Reset pin
29	DO_23	
30	DO_24	
31	DO_25	
32	DO_26	
33	DO_27	
34	DO_28	
35	DO_29	
36	DO_30	
37	GND	
38	GND	

Install driver

Adopts CH340G as the serial port. Please click to download and use Driver; the serial number can be identified in the device manager after installation.

Program download

The module is SOC module and designed with GPIO port. The CC series downloader can be used for downloading: JTAG downloader (or the CC1310 development board from TI). The serial port or any other ISP, ICP tools are not available to use. The following figure is the schematic diagram for JTAG connection (XDS100). For specific development methods, please refer to Ti official documents. (Disconnection is acceptable for TDI and TDO pins.)



Notes

1	Please feel free to contact our technical support. We will provide technical support for our devices, excluding the usage of single chip microcomputer.
2	Email： support@cdebyte.com