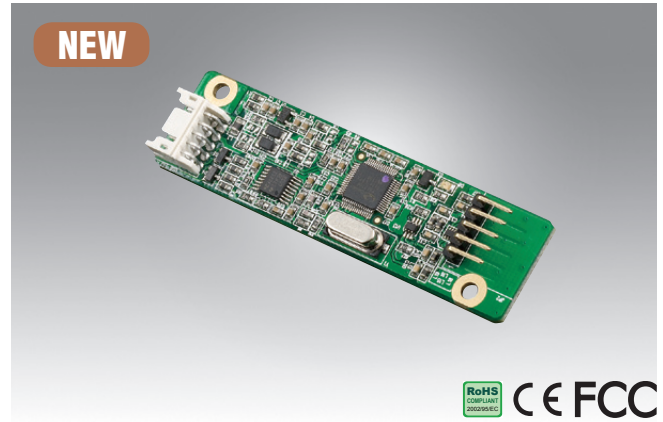
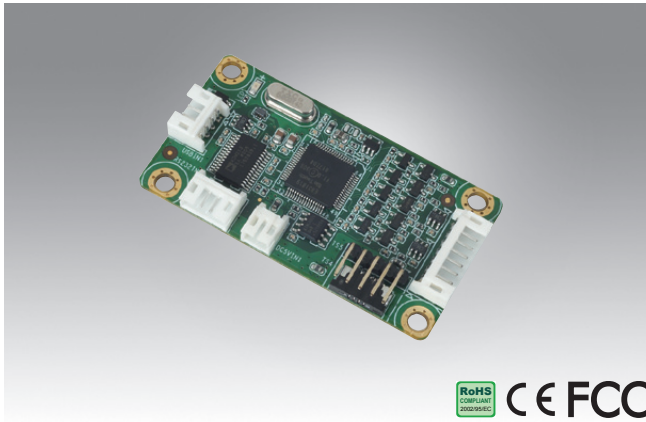


# ETM-RES02C

Resistive Type  
Single-touch Module

# ETM-RES04C

Resistive Type  
Single-touch module



## Features

- Resistive touch technology, supports 4/5-wire touchscreen
- USB & RS-232 interface
- Quick conversion time approximately 10 ms
- High resolution support to 4096 x 4096
- TouchWare, touch software package

## Features

- Resistive touch technology, supports 5-wire touchscreen
- USB & RS-232 Interface
- Resolution support to 2048 x 2048
- High Reliability and Fast conversion time

## Specifications

Touch Technology	Resistive type
Host Site Interface	USB: Conforms to USB 1.1 RS-232 serial: 8 data bits, 1 stop bit, no parity, and full duplex.
Communication Baud Rate	9,600 (default) and 19,200
Host Site Connector	USB Port: 2.0 mm, 4-pin, male header RS-232 Port: 2.0 mm, 4-pin, male header Power Port: 2.0 mm, 2-pin, male header
Touchscreen Connector	4-wire: 1.0 mm, 4-pin, FPC type, double contact type 5-wire: 2.54 mm, 5-pin, male header 5-wire: 2.0 mm, 8-pin, male header
Supported Voltage and Current	+ 5.0 V, 500 mA
Touch Resolution	4096 x 4096, Size independent
Conversion Time	Approximately 10 ms per coordinate set
LED Status	Touch activated LED indicator
O.S.Support	Windows XP/ Vista/ 7, WinCE 5.0/6.0, WEC7, Linux.
Temperature Ranges	Operating: -20 to +85° C Storage: -40 to +85° C
MTBF	> 4,000,000 hours
Vibration & Shock	Three axis sine wave, 5 ~ 500 Hz, 3.5 G, 2 minutes/ Octave with dwell on resonances
Power Consumption	Standby: 40 mA During Touch: 230 mA
Dimensions (L x W x H)	62 x 33 x 10.26 mm

## Specifications

Touch Technology	Resistive type
Host site Interface	USB: Conforms to USB 1.1 RS-232 serial: 8 data bits, 1 stop bit, no parity, and full duplex
Host site Connector	2.0 mm, 10-pin, male header for combo interface (USB and RS-232)
Touch Screen Connector	5-wire: 2.54 mm, 5-pin, male header
Support Voltage and Current	+ 5.0 V, 100 mA
Touch Resolution	2048 x 2048, Size independent
O.S.Support	Windows 2000/ XP/ 7, WinCE 5.0/6.0/7.0, Linux
Temperature Ranges	Operation: -25 to +85° C Storage: -25 to +85° C
Power Consumption	Sleep mode (USB Suspend): < 2.5 mA Idle mode (un-touch): < 20 mA Working mode (touch): < 70 mA
Dimensions (L x W x H)	75 x 20 x 10 mm

## Ordering Information

Part No.	Product Description
ETM-RES02C-ADH3EE	Touch control board, horizontal, 4/5-wire RES, -20 ~ +85° C

## Ordering Information

Part No.	Product Description
ETM-RES04C-EEH4EE	Resistive type Touch Module, Single touch, 5-wire