
KC14003

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1 KC14003

1.1 Power

Item	Specification	Note
Supply Voltage	+5VDC (+5% -10%)	Regulated Voltage
Working Current	Typical: 35 mA Minimum: 35 mA Maximum: 1000 mA	+5VDC Supply
Stand by Current	Typical: 28 mA	+5VDC Supply
Noise and Ripple	Maximum: 150 mV	+5VDC Supply
Inject Current	Maximum: +50mA	+5VDC Supply
Power Capacitance	Maximum: 47uF	+5VDC Supply

1.2 Environment

Item	Specification	Note
Storage Temperature	-20 to 80 Degree C	
Operating Temperature	0 to 60 Degree C	
Storage Humidity	0% to 95% Without condensing	
Operating Humidity	0% to 95% Without condensing	
Life Time	Minimum: 600,000 hours	

1.3 Analog Interface

Item	Specification	Note
Input Impedance	1M ohm	Touch Panel Impedance
Pressure Impedance	0~14K ohm	Touch panel pressure down impedance.

Input Capacitance	Maximum: 100nF	Touch Panel Capacitance
Driver Current	Maximum: 1000mA	
High Driver Voltage	Minimum: 4.5 V	
Low Driver Voltage	Maximum: 0.5 V	
Sample Rate	30~90 packets per second	
Touch During	Minimum: 50mS	
Non Linearity	Typical: 0.024% Maximum: 0.05%	

1.4 Digital Interface

Item	Specification	Note
Baud Rate	9600bps	
Stop Bit	1bit	
Parity Check	None	
Report Rate	Maximum: 200 packets/ sec	
Resolution	4096*4096	

1.5 Protocol

	MSB							LSB
Byte1	1	0	0	0	0	0	0	Status
Byte2	0	0	0	X11	X10	X9	X8	X7
Byte3	0	X6	X5	X4	X3	X2	X1	X0
Byte4	0	0	0	Y11	Y10	Y9	Y8	Y7
Byte5	0	Y6	Y5	Y4	Y3	Y2	Y1	Y0

Status: Indicate the touch status: **1** is **touch down**, **0** is **touch up**.

X11~X0: 12bit data of **X** pressure value.

Y11~Y0: 12bit data of **Y** pressure value.

1.6 LED Diagnostic

Status	Specification	Note
Red led & green led light for 1S.	Power on initialization.	
Green led flashes at 2S interval.	No communication.	
Green led fast flashing with 1S interval flash.	Data transfer.	
Red led light.	Touch	

1.7 Analog Connector

Item	Specification	Note
Pin 1	Left	
Pin 2	Top	
Pin 3	Right	
Pin 4	Bottom	

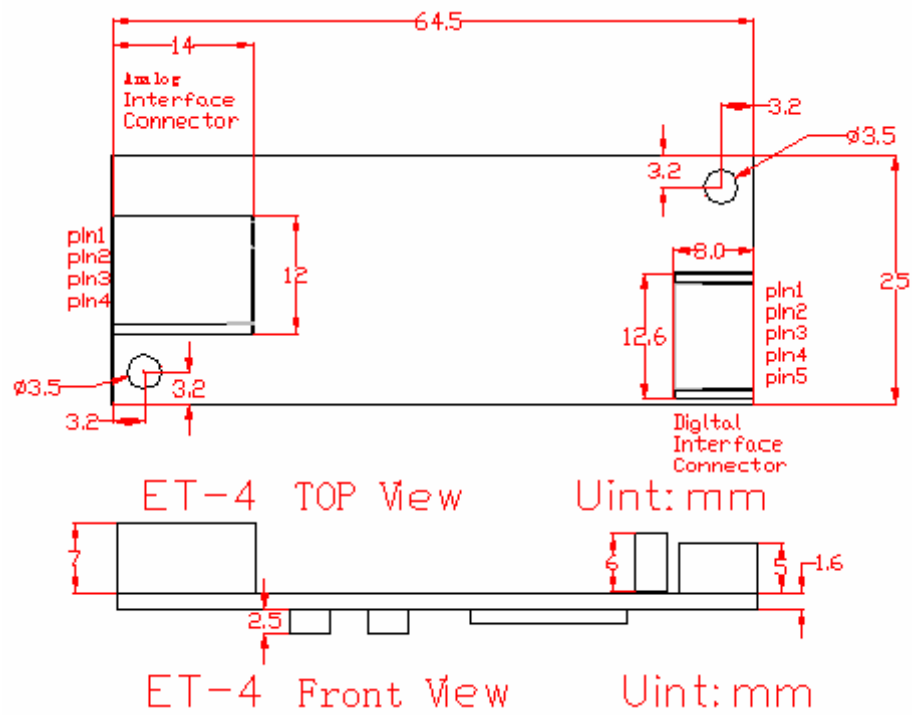
Standard 2.54mm Connector

1.8 Digital Connector

Item	Specification	Note
Pin 1	Power GND	
Pin 2	Power +5VDC	
Pin 3	Power GND	
Pin 4	Transfer	
Pin 5	Receiver	

Standard 2.0mm Connector

1.9 Mechanical Drawing



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