

54-B-PMC-14 Extreme Touch

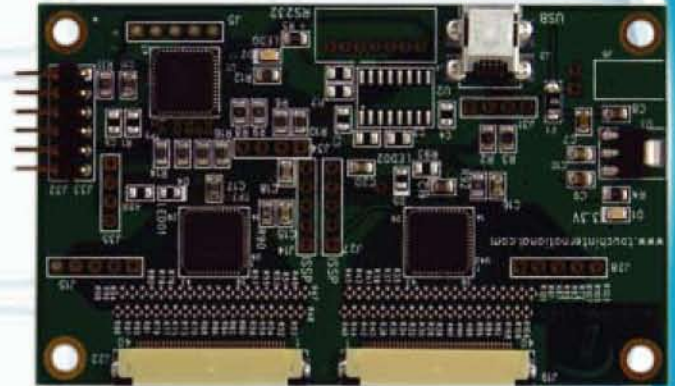
Projected Capacitive 3 PSoC Controller

Touch International's 54-B-PMC-14 projected capacitive controller is one of several options the Extreme Touch product line has to offer. Designed to interface with computer systems through a wide variety of standard interfaces, the controller is compatible with USB, I2C and Serial communications. Combined with Touch International's proprietary firmware, the controller can easily be tuned to your custom design, as well as a range of different applications.

Features

Motion Detection Method
X/Y Position Reporting
Touch Force
Calibration
Chip Set Solution
Touch
Interface
RoHS
REACH
Warranty

Capacitive sensing using a Sigma-Delta modulator.
Absolute Position
No contact pressure required.
No need for calibration.
Available
Single Touch
HID Compliant
Compliant
Compliant
1 Year



Specifications

Controller Size
Power Requirements
Operating Temperature
Storage Temperature
Relative Humidity
Interface

Communication Cables
Resolution
Report Rate
Mean Time between Failures
Maximum Screen Size Supported
Supported Operating Systems

3.300" x 2.000" (83.82mm x 50.80mm)
5 ~ 9V DC unregulated power, typical 60mA
-40 to 85°C
-40 to 85°C
35°C at 95% RH Non-Condensing
USB: 2.0, 1.1 Compliant (Standard)
Optional: USB-UART
RS-232 Serial Communication
Protocol: No Parity, 8 Data Bits, 1 Stop Bit,
15200 Baud, No Flow Control
I2C Communication
A Plug/5-Pin Mini-B Plug (USB & USB-UART): TI# 1300264
2048 x 2048
Approx. 20 - 40 Points/Sec
> 5,600,000 hrs.
22"
Windows 2000, XP, Vista & 7, Linux Ubuntu, Mac OSX 10.X (Lepoard)

J22 PINOUT

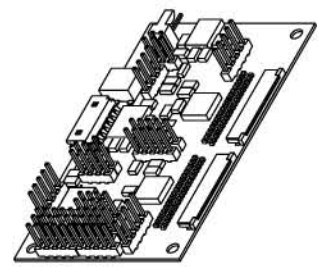
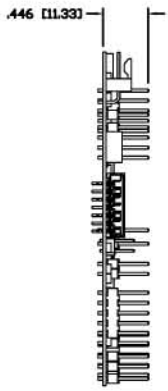
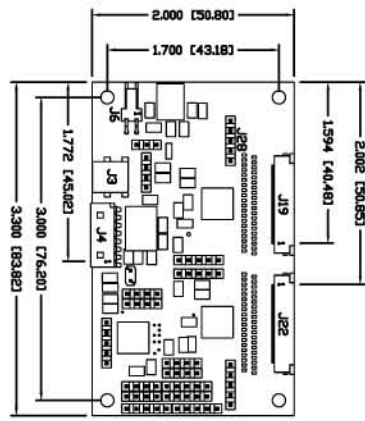
- J22 - PIN01 - COL1
- J22 - PIN02 - COL2
- J22 - PIN03 - COL3
- J22 - PIN04 - COL4
- J22 - PIN05 - COL5
- J22 - PIN06 - COL6
- J22 - PIN07 - COL7
- J22 - PIN08 - COL8
- J22 - PIN09 - COL9
- J22 - PIN10 - COL10
- J22 - PIN11 - COL11
- J22 - PIN12 - COL12
- J22 - PIN13 - COL13
- J22 - PIN14 - COL14
- J22 - PIN15 - COL15
- J22 - PIN16 - COL16
- J22 - PIN17 - COL17
- J22 - PIN18 - COL18
- J22 - PIN19 - COL19
- J22 - PIN20 - COL20
- J22 - PIN21 - COL21
- J22 - PIN22 - COL22
- J22 - PIN23 - COL23
- J22 - PIN24 - COL24
- J22 - PIN25 - COL25
- J22 - PIN26 - COL26
- J22 - PIN27 - COL27
- J22 - PIN28 - COL28
- J22 - PIN29 - COL29
- J22 - PIN30 - COL30
- J22 - PIN31 - COL31
- J22 - PIN32 - COL32
- J22 - PIN33 - COL33
- J22 - PIN34 - COL34
- J22 - PIN35 - COL35
- J22 - PIN36 - COL36
- J22 - PIN37 - COL37
- J22 - PIN38 - COL38
- J22 - PIN39 - COL39
- J22 - PIN40 - COL40

J3 PINOUT (USB)

- J3 - PIN01 - VBUS
- J3 - PIN02 - D-
- J3 - PIN03 - D+
- J3 - PIN04 - GRD
- J3 - PIN05 - N/C

J6 PINOUT

- J6 - PIN01 - VDC
- J6 - PIN02 - GRD



J19 PINOUT

- J19 - PIN01 - RDW1
- J19 - PIN02 - RDW2
- J19 - PIN03 - RDW
- J19 - PIN04 - RDW4
- J19 - PIN05 - RDW5
- J19 - PIN06 - RDW6
- J19 - PIN07 - RDW7
- J19 - PIN08 - RDW8
- J19 - PIN09 - RDW9
- J19 - PIN10 - RDW10
- J19 - PIN11 - RDW11
- J19 - PIN12 - RDW12
- J19 - PIN13 - RDW13
- J19 - PIN14 - RDW14
- J19 - PIN15 - RDW15
- J19 - PIN16 - RDW16
- J19 - PIN17 - RDW17
- J19 - PIN18 - RDW18
- J19 - PIN19 - RDW19
- J19 - PIN20 - RDW20
- J19 - PIN21 - RDW21
- J19 - PIN22 - RDW22
- J19 - PIN23 - RDW23
- J19 - PIN24 - RDW24
- J19 - PIN25 - RDW25
- J19 - PIN26 - RDW26
- J19 - PIN27 - RDW27
- J19 - PIN28 - RDW28
- J19 - PIN29 - RDW29
- J19 - PIN30 - RDW30
- J19 - PIN31 - RDW31
- J19 - PIN32 - RDW32
- J19 - PIN33 - RDW33
- J19 - PIN34 - RDW34
- J19 - PIN35 - RDW35
- J19 - PIN36 - RDW36
- J19 - PIN37 - RDW37
- J19 - PIN38 - RDW38
- J19 - PIN39 - RDW39
- J19 - PIN40 - RDW40

J4 PINOUT (RS232)

- J4 - PIN01 - GRD
- J4 - PIN02 - TX232
- J4 - PIN03 - RX232
- J4 - PIN04 - N/C
- J4 - PIN05 - GRD
- J4 - PIN06 - N/C
- J4 - PIN07 - GRD

- NOTES:
1. WARP/TWIST OF BOARD < +0.020" & > -0.040"
 2. COMPONENTS ON TOP SIDE ONLY
 3. FINAL FINISH TO BE LEAD FREE HASL
 4. ALL HOLES THROUGH PLATE
 5. SOLDER MASK: TOP SIDE, BOTTOM SIDE & GREEN
 6. SILK SCREEN: TOP SIDE & WHITE
 7. SMALLEST TRACE: 0.005"
 8. SMALLEST SPACE: 0.006"
 9. ENVIRONMENTAL: ROHS COMPLIANT
 10. LOW PROFILE BOARD W/O USB MINI: THICKNESS = 0.14" (3.57mm)

QTY	ITEM NO	PART NUMBER	DESCRIPTION
			DO NOT SCALE DRAWING! UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. REMOVE ALL BURRS AND BREAK SHARP EDGES. DEC. TOLERANCE: XXX = ±.080 UNO FRACTIONAL TOL. X/X = ±1/16 XXXX = ±.015 UNO ANGULAR TOL. = ±1° XXXXX = ±.008 UNO
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			DRAWN DATE SCALE: NTS SHEET 1 OF 1
			TITLE CONTROLER, PCAP, 3 PSOC, 0.5 MM ZIF, SER/USB
			TOUCH INTERNATIONAL 2222 West Rundberg Ln #100 Austin, Texas 78758 512-832-8292
			SIZE 54-B-PMC-14
			REV. A