

54-B-PMC-07 Extreme Touch

Projected Capacitive 1 PSoC Controller

Touch International's 54-B-PMC-07 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. Now featuring multi-touch and gesture (two finger touch) capabilities, the 54-B-PMC-07 controller can help take your product application to the next level.

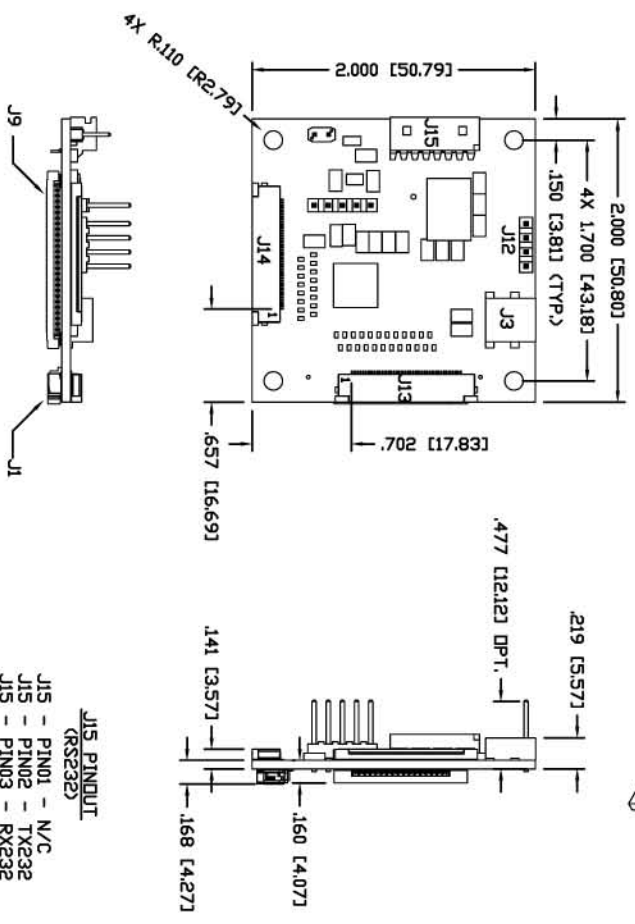
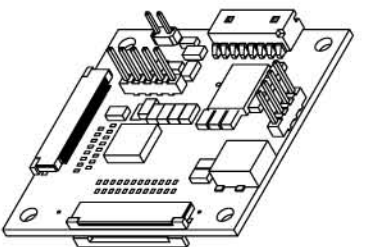
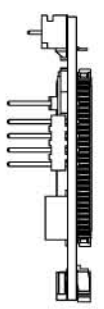
Features

Motion Detection Method	Capacitive sensing using a Sigma-Delta modulator.
X/Y Position Reporting	Absolute Position
Touch Force	No contact pressure required.
Calibration	No need for calibration.
Chip Set Solution	Available
Touch	Single Touch and Gesture (Two Finger Touch)
Interface	HID Compliant.
RoHS	Compliant.
REACH	Compliant
Warranty	5 Years



Specifications

Controller Size	2.0" x 2.0" (50.80mm x 50.80mm)
Power Requirements	5 ~ 9V DC unregulated power, typical 60mA
Operating Temperature	-40 to 85°C
Storage Temperature	-40 to 85°C
Relative Humidity	35°C at 95% RH Non-Condensing
Interface	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
Communication Cables	A Plug/5-Pin Mini-B Plug (USB & USB-UART): TI# 1300264
Resolution	2048 x 2048
Report Rate	Approx. 25 - 50 points/sec
Mean Time between Failures	> 5,600,000 hrs.
Maximum Screen Size Supported	8.4"
Supported Operating Systems	Windows 2000, XP, Vista & 7, Linux Ubuntu, Mac OSX 10.X (Lepoard)



- J1 PINOUT**
(DPT. 1 MM)
- J1 - PIN01 - COL.1
 - J1 - PIN02 - COL.2
 - J1 - PIN03 - COL.3
 - J1 - PIN04 - COL.4
 - J1 - PIN05 - COL.5
 - J1 - PIN06 - COL.6
 - J1 - PIN07 - COL.7
 - J1 - PIN08 - COL.8
 - J1 - PIN09 - COL.9
 - J1 - PIN10 - COL.10
 - J1 - PIN11 - COL.11
 - J1 - PIN12 - COL.12
 - J1 - PIN13 - COL.13
 - J1 - PIN14 - COL.14
 - J1 - PIN15 - COL.15
 - J1 - PIN16 - COL.16
 - J1 - PIN17 - COL.17
 - J1 - PIN18 - COL.18
 - J1 - PIN19 - COL.19
 - J1 - PIN20 - COL.20
 - J1 - PIN21 - COL.21
 - J1 - PIN22 - COL.22
 - J1 - PIN23 - COL.23
 - J1 - PIN24 - COL.24
 - J1 - PIN25 - N/C
 - J1 - PIN26 - N/C

- J9 PINOUT**
(DPT. 1 MM)
- J9 - PIN01 - RDV.1
 - J9 - PIN02 - RDV.2
 - J9 - PIN03 - RDV.3
 - J9 - PIN04 - RDV.4
 - J9 - PIN05 - RDV.5
 - J9 - PIN06 - RDV.6
 - J9 - PIN07 - RDV.7
 - J9 - PIN08 - RDV.8
 - J9 - PIN09 - RDV.9
 - J9 - PIN10 - RDV.0
 - J9 - PIN11 - RDV.11
 - J9 - PIN12 - RDV.12
 - J9 - PIN13 - RDV.13
 - J9 - PIN14 - RDV.14
 - J9 - PIN15 - RDV.15
 - J9 - PIN16 - RDV.16

QTY	ITEM NO	PART NUMBER	DESCRIPTION
		J15 PINOUT (RSS232)	J15 PINOUT (RSS232)
	J15	PIN01 - N/C	J15 - PIN01 - N/C
	J15	PIN02 - TX322	J15 - PIN02 - TX322
	J15	PIN03 - RX322	J15 - PIN03 - RX322
	J15	PIN04 - N/C	J15 - PIN04 - N/C
	J15	PIN05 - GRD	J15 - PIN05 - GRD
	J15	PIN06 - N/C	J15 - PIN06 - N/C
	J15	PIN07 - GRD	J15 - PIN07 - GRD
		J12 PINOUT (USB)	J12 PINOUT (USB)
	J12	PIN04 - VBUS	J12 - PIN04 - VBUS
	J12	PIN03 - D-	J12 - PIN03 - D-
	J12	PIN02 - D+	J12 - PIN02 - D+
	J12	PIN01 - GRD	J12 - PIN01 - GRD
		J13 PINOUT (USB)	J13 PINOUT (USB)
	J13	PIN01 - N/C	J13 - PIN01 - N/C
	J13	PIN02 - N/C	J13 - PIN02 - N/C
	J13	PIN03 - N/C	J13 - PIN03 - N/C
	J13	PIN04 - N/C	J13 - PIN04 - N/C
	J13	PIN05 - N/C	J13 - PIN05 - N/C
	J13	PIN06 - N/C	J13 - PIN06 - N/C
	J13	PIN07 - N/C	J13 - PIN07 - N/C
	J13	PIN08 - N/C	J13 - PIN08 - N/C
	J13	PIN09 - N/C	J13 - PIN09 - N/C
	J13	PIN10 - N/C	J13 - PIN10 - N/C
	J13	PIN11 - N/C	J13 - PIN11 - N/C
	J13	PIN12 - N/C	J13 - PIN12 - N/C
	J13	PIN13 - N/C	J13 - PIN13 - N/C
	J13	PIN14 - N/C	J13 - PIN14 - N/C
	J13	PIN15 - N/C	J13 - PIN15 - N/C
	J13	PIN16 - N/C	J13 - PIN16 - N/C
	J13	PIN17 - N/C	J13 - PIN17 - N/C
	J13	PIN18 - N/C	J13 - PIN18 - N/C
	J13	PIN19 - N/C	J13 - PIN19 - N/C
	J13	PIN20 - N/C	J13 - PIN20 - N/C
	J13	PIN21 - N/C	J13 - PIN21 - N/C
	J13	PIN22 - N/C	J13 - PIN22 - N/C
	J13	PIN23 - N/C	J13 - PIN23 - N/C
	J13	PIN24 - N/C	J13 - PIN24 - N/C
	J13	PIN25 - N/C	J13 - PIN25 - N/C
	J13	PIN26 - N/C	J13 - PIN26 - N/C
		J14 PINOUT (0.5 MM)	J14 PINOUT (0.5 MM)
	J14	PIN01 - RDV.1	J14 - PIN01 - RDV.1
	J14	PIN02 - RDV.2	J14 - PIN02 - RDV.2
	J14	PIN03 - RDV.3	J14 - PIN03 - RDV.3
	J14	PIN04 - RDV.4	J14 - PIN04 - RDV.4
	J14	PIN05 - RDV.5	J14 - PIN05 - RDV.5
	J14	PIN06 - RDV.6	J14 - PIN06 - RDV.6
	J14	PIN07 - RDV.7	J14 - PIN07 - RDV.7
	J14	PIN08 - RDV.8	J14 - PIN08 - RDV.8
	J14	PIN09 - RDV.9	J14 - PIN09 - RDV.9
	J14	PIN10 - RDV.10	J14 - PIN10 - RDV.10
	J14	PIN11 - RDV.11	J14 - PIN11 - RDV.11
	J14	PIN12 - RDV.12	J14 - PIN12 - RDV.12
	J14	PIN13 - RDV.13	J14 - PIN13 - RDV.13
	J14	PIN14 - RDV.14	J14 - PIN14 - RDV.14
	J14	PIN15 - RDV.15	J14 - PIN15 - RDV.15
	J14	PIN16 - RDV.16	J14 - PIN16 - RDV.16
	J14	PIN17 - N/C	J14 - PIN17 - N/C
	J14	PIN18 - N/C	J14 - PIN18 - N/C
	J14	PIN19 - N/C	J14 - PIN19 - N/C
	J14	PIN20 - N/C	J14 - PIN20 - N/C
	J14	PIN21 - N/C	J14 - PIN21 - N/C
	J14	PIN22 - N/C	J14 - PIN22 - N/C
	J14	PIN23 - N/C	J14 - PIN23 - N/C
	J14	PIN24 - N/C	J14 - PIN24 - N/C
	J14	PIN25 - N/C	J14 - PIN25 - N/C
	J14	PIN26 - N/C	J14 - PIN26 - N/C

- 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)

DO NOT SCALE DRAWING!
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. REMOVE ALL BURRS AND BREAK SHARP EDGES.
DEC. TOLERANCE:
XX = ±.060 UNO FRACTIONAL TOL. X/X = ±1/16
XXX = ±.020 UNO
XXXX = ±.015 UNO
XXXXX = ±.008 UNO

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CONTROLER, PCAP, 1 PSOC
0.5mm/1mm ZIF, USB/RSS232

SCALE: NTS
SHEET 1 OF 1

SIZE DWG. NO. 54-B-PMC-07

REV. C