



IPCT I2C to USB Bridge Board
Model NO. : BD-IPCTUSB-001
REVISION : 1

APPROVED BY	CHECKED BY	PREPARED BY

United Kingdom

Densitron Europe Ltd
4th Floor
72 Cannon Street
London EC4N 6AE

T +44 (0)20 7648 4200

F +44 (0)20 7648 4201

3. Application

IPCT I2C to USB bridge board is applied to IPCT modules. The bridge board supports WINXP (1 point) and WIN7 (10 point) operation.

4. Features

- USB HID Device
- 2048 x 2048 resolution

5. General Specifications

Item	Specifications	Unit
Outline Dimension	45(L) x 32(W)	mm
Power Source	5	V
Support IPCT Resolution	2048 x 2048	-
Maximum Detect Points	10	-

5.1 Supported Operating System

OS	Version	Note
Windows	Windows 7 Windows XP Windows 2000	-
Linux	Ubuntu (11.04 / 11.10 / 12.04)	-

6. Block Diagram



7. Pin Assignment

J3 : USB Connector

(used connector : MINIUSB)

Pin No.	Symbol	I/O	Description
1	VBUS	I	+5.0V power supply.
2	D-	I/O	USB D-
3	D+	I/O	USB D+
4	NC	-	Not connection
5	GND	I	ground(+0V)

J5 : IPCT Connector

(used connector : CF20101D0T0-LF)

Pin No.	Symbol	I/O	Description
1	GND	I	ground(+0V)
2	VDD	O	+3.3V output
3	/RST	O	Reset signal, active low
4	/INT	I	Interrupt signal of IPCT, active low
5	SDA	I/O	I2C data
6	SCL	I/O	I2C clock
7	NC	-	Not connection
8	NC	-	Not connection
9	NC	-	Not connection
10	GND	I	ground(+0V)

8. Electrical Characteristics

(Ta=25±2°C)

Item	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
Power Supply Voltage	VBUS	4.8	5.0	5.2	V	-
Output High Threshold Voltage	V _{OH}	2.8	-	-	V	-
Output Low Threshold Voltage	V _{OL}	-	-	0.8	V	-
Differential Input Sensitivity (D+)-(D-)	V _{DI}	0.2	-	-	V	-
Differential Input Common Mode Range	V _{CM}	0.8	-	2.5	V	

9. Outline Drawing

