

# **J2 580 Integrated Touchscreen Computer**

**System Manual** 

May 2008

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### **Overview**

The J2 580 is unique in design. Building on the J2 values and innovative design practices of the past J2 have produced a product that will not only meet the requirements of retailers today, but future proof their investment for many years to come.

The 580 Integrated Touch screen computer is an "all in the head" design that fills the role of a counter top or wall/pole mounted computer in the same unit. Both the counter top base and VESA/ wall mount brackets come standard with the 580.

There are 3 main variants of this model available, a 1.0GHz Celeron M, 1.5GHz Celeron M and 1.8 GHz Pentium M versions. Utilizing the latest technology from Intel the 580 has an entry level specification adopting a fan-less approach progressing to the high specification Intel processors that accommodate power hungry applications. Accessibility is the key to machine maintenance or upgradeability. The motherboard can be easily removed and exchanged, upgrades to the memory modules can be easily undertaken as the tray housing the technology slides in and out with the greatest of ease. A complete motherboard upgrade can be carried out in less than 10 seconds! The HDD is easily accessible as it too is housed on a removable tray. The footprint of the J2 580 is particularly compact making it ideal for the space conscious retailer.

The 580 thick or thin configurations support the standard Microsoft operating systems XP, WePOS, CE.NET and XPe, further demonstrating its versatility. The 580 is equally proficient with the many flavors of Linux.



# **Specification**

Main board				
	Intel Celeron M ULV 1GHz FSB 400Mhz fan-less			
CPU Support	Intel Celeron M 1.5G / Pentium M 1.8G FSB 400Mhz			
Chipset	Intel 852GM + ICH4 FSB 400Mhz			
System Memory	2 x DDR DIMM socket up to 2 GB FSB200/266Mhz			
Graphic Memory	Share system memory up to 64MB			
BIOS	AWARD PnP			
LCD Touch Pane				
LCD Size	15" TFT LCD			
Brightness	250nits			
Maximal Resolution	1024 x 768			
Touch Screen	Resistive 5 wire			
Tile Angle	0 ~ 90 ~			
Storage				
HDD	one slim HDD bay (SATA interface) Quick Change			
Flash Memory	CF adapter for HDD slot Quick Change			
Expansion				
Mini-PCI Slot	1, normally used for 802.11g wireless card			
I/O Ports				
Rear I/O				
USB	4 x in cable well / 1 x on left side			
Serial / COM	4 x RJ 45 COM ( COM 3 /COM 4 pin 9 with 5V/12V by jumper )			
Parallel	1, DB25 in cable well			
LAN (10 / 100)	1, RJ45 in cable well (Realtek RTL8139)			
2 <sup>nd</sup> VGA	1 supports standard VGA monitor or optional 12" or 10.4" secondary customer side display, powered from 580			
Cash Drawer	1 x RJ 11 (24V or 12V) with status			
DC Jack	1 Power in, 19VDC 4.75 amps			
Audio Jack	1 x Line-out, 1 x Line-in in cable well			
Font I/O Indicator				
Power LED	1, Green for system power on			

Power				
Power Adapter	19VDC, 90W, 100-240 VAC, 1.5A MAX			
Optional Peripheral				
Input Device				
MSR	3 Track ( on PS2 port, wedge type )			
I-button	Dallas Key I-button ( on PS2 port, wedge type )			
2-in-1 MSR	MSR 3 track (PS2) / Finger Print (USB)			
<b>Output Device</b>				
Second Display	optional 12.1" or 10.4" 2nd display, with or without touch			
Customer Display	Customer Side VFD display with 2 x20 characters			
UPS battery	2 hour DC UPS, Mounts in base of unit			
Mounting				
Standard	Counter Top Base, Adjustable Viewing Angle 0-90°			
Included	Wall Mount / VESA Mount Bracket			
Optional	Optional adjustable angle VESA/Wall mount bracket			
Environment				
EMC & Safety	FCC, Class A, CE, LVD			
Operating Temperature	5 ~ 40°C			
Storage Temperature	-20 ~ 55°C			
Operating Humidity	20% ~ 80% RH non condensing			
Storage Humidity	20% ~ 85% RH non condensing			
Dimensions (W x D x H)	370x250x340mm			
Weight	7.45kg			
OS Support	Windows XP, WEPOS, XP Embedded, Windows CE 5.0, Linux			

<sup>\*</sup> This specification is subject to change without prior notice.

## **Packing List**

Take the system unit out of the carton. Remove the unit from the carton by holding it by the foam inserts. The following contents should be found in the carton:

#### **Standard Items**





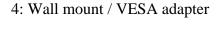
1: System



2: COM Cables (3)



3: Printer Cables







5: Screws for VESA Mount (4)

6: COM port cable labels

# **System View**

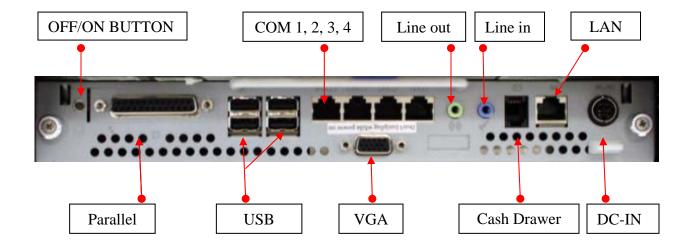
### **Front View**



### **Rear View**



### I/O View



# **Optional Items**



Power Supply Bracket



Hinge bracket



MSR module (front swipe)



iButton / iButton-MSR combo



Finger Print / MSR-Finger Print Combo



Secondary Display 12" (also 10.4" available)



2X20 Character Customer Display

## **System Installation**

### **Counter Top Base**

The 580 is shipped with a counter top base. This base allow for the head to be adjust from 0-90°.

To remove the integrated head from the base loosen the thumbscrew located on the back of the unit under the hinge of the counter top base as shown below. Then lift the head as shown.



a. Loosen the thumbscrew (1)



b. Lift the panel up and separate it from the stand bracket

To mount the 580 to the base do the reverse as shown below.



a. attach the panel to the desk mount hinge bracket and slide it into the position as shown by the arrows



b. Tighten the thumbscrew to finish the installation

#### **VESA / Wall Mount Bracket Installation**

The VESA / Wall mount bracket as threaded mounting holes (screws provided) for the 75mm VESA standard and unthreaded holes for the 100mm standard.

Using the 100mm hole pattern the bracket can be used, by itself, as a wall mount bracket. After install thumbscrew clip mount the bracket to the wall then hang the 580 on the bracket.

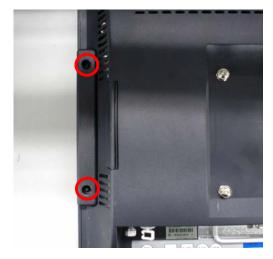


Install screw to secure thumbscrew clip



The bracket slides on to the 580 mount posts as shown. Normally the bracket would already be mounted to the wall or a VESA mount and the 580 would be hung on the bracket. Once in place the thumbscrew would be tightened.

### **MSR** Installation



a. Remove the screws (2)



b. Connect the cable and tighten the screw



c. Slide the MSR into the position and tighten the screw to finish the installation. Be careful not to pitch the cable when installing.

### **Hard Drive Access**



Loosen the screw



Slide the Hard Module as shown

### **Replacing the Mother Board**



Loosen the two thumbscrews (you may require a screw driver)



Pull the handle in the direction as shown order to release the mainboard tray from the system



### **Adding / Upgrading SDRAM**



Use your finger to push the DIMM slot ejector clips into the down position.



Remove the SDRAM from the slot in the direction as shown by the arrow to replace it

Note: There are two memory socket, one one each side of the mother board. Population order does not matter.

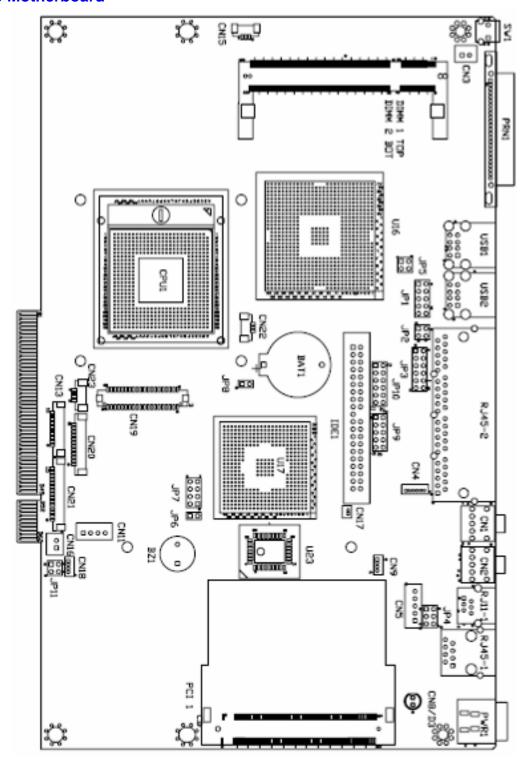
### **Removing the Power Supply Adaptor**



Remove the two screws to release the adaptor and the bracket from the system.

# **Jumper Settings**

### **580 Motherboard**



### **Connectors**

Connector	Function
CN1	Audio Line Out
CN2	Audio Line In
CN13	COM5 for Touch
CN15	CPU FAN Connector
CN16	Hardware Reset
CN18	USB2
CN19	LCD Interface Connector
CN20	Inverter Connector
CN21	Card Reader Connector

Connector	Function
IDE1	Primary IDE Connector
PRN1	Parallel Port
PWR1	+19V Power Adapter
RJ11_1	Cash Drawer Connector
RJ45_1	LAN (On Board)
RJ45_2	COM1, COM2, COM3, COM4
USB1	USB3, USB4
USB2	USB5, USB6
SW1	Power Switch

### **Jumper Settings**

**CMOS Operation Mode** 

Function	JP8
CMOS Normal	⊚N/C
CMOS Reset	1-2

To clear the CMOS:

Unplug DC power from the unit.

Remove the mother board.

Change the JP8 jumper setting from N/C to 1-2.

Wait 2 seconds.

Change the JP8 jumper setting back to N/C.

Reinstall mother board.

Apply power and continue.

**Power Mode Setting** 

Function	JP6
ATX Power	◎N/C (use for 580)
AT Power	1-2

**Cash Drawer Power Setting** 

Voltage	JP4
+12V	◎1-2
N/A	3-4
+24V	5-6 (default)

**COM3 & COM 4 Power Setting** 

Function	JP3
COM3 PIN10_RI	◎1-2
COM3 PIN10_+5V	3-4
COM3 PIN10_+12V	5-6
COM4 PIN10_RI	◎7-8
COM4 PIN10_+5V	9-10
COM4 PIN10_+12V	11-12

**Card Reader Setting** 

cara reader seems			
Function	JP11		
@Docking	1-2		
On Board	3-4		

**LCD ID Setting** 

Panel	Resolu	ition	LVDS			JP7		
Number			Bits	Channel	1-2	3-4	5-6	7-8
0	640	x 480	18	Single	SHORT	SHORT	SHORT	SHORT
1	800	x 600	18	Single	SHORT	SHORT	SHORT	OPEN
2 *	1024	x 768	18	Single	SHORT	SHORT	OPEN	SHORT
3	1280	x 1024	24	Dual	SHORT	SHORT	OPEN	OPEN
4	1024	x 768	24	Single	SHORT	OPEN	SHORT	SHORT
5	800	x 600	24	Single	SHORT	OPEN	SHORT	OPEN

st This is the setting required for the 580 system

#### **COM2 RS232**

Function	JP9	JP10
®RS232	1-2 3-4 5-7	1-2

#### Note:

OPEN SHORT





### **Connectors Pin Definition**

### **CN4: Speaker & MIC Connector**

Pin 1	AMP_ORL
Pin 3	GND
Pin 5	GND

Pin 2	GND
Pin 4	AMP_ORR
Pin 6	MIC1

#### **CN9: CD-IN Connector**

Pin 1	CDIN_L
Pin 3	CDIN_R

Pin 2	CDIN_REF
Pin 4	CDIN_REF

### **CN11: Power Connector For 3.5" HDD**

Pin 1	+12V
Pin 3	GND

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Pin 2	GND
Pin 4	+5V

#### **CN13: COM5**

Pin 1	DCD#
Pin 3	TX#
Pin 5	GND
Pin 7	RTS#
Pin 9	RI

Pin 2	RX#
Pin 4	DTR#
Pin 6	DSR#
Pin 8	CTS#
Pin 10	+5V

#### **CN15: CPU FAN Connector**

01120001	2 1 1 1 1 0 0 1 1 1 1 0 0 0 0 1
Pin 1	+5V
Pin 3	GND

Pin 2	Feedback
,	

#### **CN18: USB 2**

+5V_USB1 Pin 2 USB20_R_P1	
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Pin 3	USB20_R_P1+

### **CN19: LVDS Interface**

CIVID: DVI	75 Interface
Pin 1	LVDS_B0+
Pin 3	LVDS_B0-
Pin 5	GND
Pin 7	LVDS_B1+
Pin 9	LVDS_B1-
Pin 11	GND
Pin 13	LVDS_B2+
Pin 15	LVDS_B2-
Pin 17	GND
Pin 19	LVDS_B3+
Pin 21	LVDS_B3-
Pin 23	GND
Pin 25	LVDS_CLKB+
Pin 27	LVDS_CLKB-
Pin 29	GND
Pin 31	+5V_LCDVDD
Pin 33	+5V_LCDVDD
Pin 35	+5V_LCDVDD
Pin 37	+5V_LCDVDD
Pin 39	+5V_LCDVDD

Pin 4	GND

Pin 2	LVDS_A3+
Pin 4	LVDS_A3-
Pin 6	GND
Pin 8	LVDS_CLKA+
Pin 10	LVDS_CLKA-
Pin 12	GND
Pin 14	LVDS_A2+
Pin 16	LVDS_A2-
Pin 18	GND
Pin 20	LVDS_A1+
Pin 22	LVDS_A1-
Pin 24	GND
Pin 26	LVDS_A0+
Pin 28	LVDS_A0-
Pin 30	GND
Pin 32	+3.3V_LCDVDD
Pin 34	+3.3V_LCDVDD
Pin 36	+3.3V_LCDVDD
Pin 38	+3.3V_LCDVDD
Pin 40	+3.3V_LCDVDD

### **CN20: Inverter Connector**

Pin 1	+12V_INV
Pin 3	+12V_INV
Pin 5	Back-Light Enable
Pin 7	N/C
Pin 9	GND
Pin 11	GND

Pin 2	+12V_INV
Pin 4	+12V_INV
Pin 6	N/C
Pin 8	Back-Light Enable
Pin 10	GND
Pin 12	GND

### **CN21: POS Card Reader Connector**

Pin 1	+5V
Pin 3	KDATA_SIO_TO_MSR
Pin 5	KDATA_MSR_TO_GFINGER
Pin 7	RS232_6_RX#
Pin 9	RS232_6_CTS#
Pin 11	KB_EN

Pin 2	+5V
Pin 4	KDATA_SIO_TO_MSR
Pin 6	KCLK_MSR_TO_GHINGER
Pin 8	RS232_6_TX#
Pin 10	RS232_6_RTS#
Pin 12	GND

Pin 13	USB20_MSR_P0+
Pin 15	GND

Pin 14	USB20_MSR_P0-
D: 14	LICDOO MCD DO

### **CN22: System FAN Connector**

Pin 1	+5V
Pin 3	GND

Pin 2	Feedback

#### **CN23: IrDA Connector**

Pin 1	+5V
Pin 3	IRDA_TX

Pin 2	IRDA_RX
Pin 4	GND

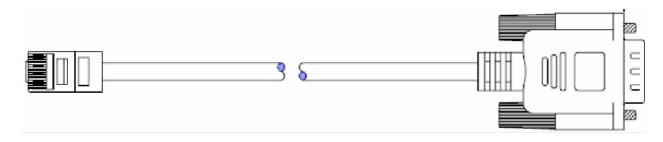
## RJ45\_2: COM1(Pin1~10), COM2 (Pin11~20)

KJ45_2: COMI(PINI~10), CO				
Pin 1	N/C			
Pin 3	RS232_1_DSR#			
Pin 5	RS232_1_RTS#			
Pin 7	RS232_1_CTS#			
Pin 9	GND			
Pin 11	N/C			
Pin 13	RS232_2_DSR#			
Pin 15	RS232_2_RTS#			
Pin 17	RS232_2_CTS#			
Pin 19	GND			
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Pin 2	RS232_1_DCD#
Pin 4	RS232_1_RX#
Pin 6	RS232_1_TX#
Pin 8	RS232_1_DTR#
Pin 10	RS232_1_RI
Pin 12	RS232_2_DCD#
Pin 14	RS232_2_RX#
Pin 16	RS232_2_TX#
Pin 18	RS232_2_DTR#
Pin 20	RS232_2_RI

### **RJ45 to DB9 Cable for COM Ports**

RJ45	DB9
Pin 1	
Pin 2	Pin 1
Pin 3	Pin 6
Pin 4	Pin 2
Pin 5	Pin 7
Pin 6	Pin 3
Pin 7	Pin 8
Pin 8	Pin 4
Pin 9	Pin 5
Pin 10	Pin 9



### RJ45\_2: COM3(Pin21~30), COM4(Pin31~40)

1045_2. COM3(11121450), CO				
Pin 21	N/C			
Pin 23	RS232_3_DSR#			
Pin 25	RS232_3_RTS#			
Pin 27	RS232_3_CTS#			
Pin 29	GND			
Pin 31	N/C			
Pin 33	RS232_4_DSR#			
Pin 35	RS232_4_RTS#			
Pin 37	RS232_4_CTS#			
Pin 39	GND			

,	
Pin 22	RS232_3_DCD#
Pin 24	RS232_3_RX#
Pin 26	RS232_3_TX#
Pin 28	RS232_3_DTR#
Pin 30	RS232_3_RI
Pin 32	RS232_4_DCD#
Pin 34	RS232_4_RX#
Pin 36	RS232_4_TX#
Pin 38	RS232_4_DTR#
Pin 40	RS232_4_RI

### JP1: VGA Port

91 11 ( 911 1 010				
Pin 1	GND			
Pin 3	GND			
Pin 5	GND			
Pin 7	GND			
Pin 9	GND			

Pin 2	CRT_R
Pin 4	CRT_G
Pin 6	CRT_B
Pin 8	CRT_HSYNC
Pin 10	CRT_VSYNC

### JP2: VGA Power

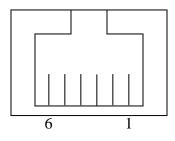
Pin 1	+12
Pin 3	+12

Pin 2	GND
Pin 4	GND

#### **Cash Drawer**

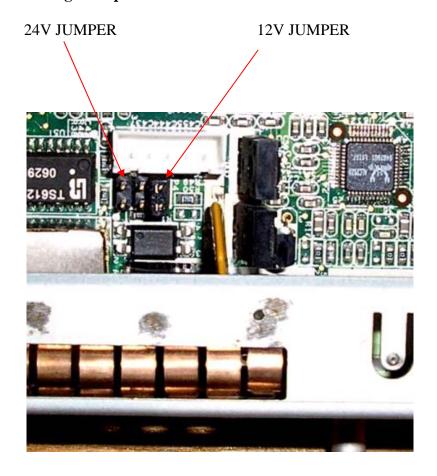
You can install a cash drawer through the cash drawer port. Please verify the pin assignment before installation.

### **Cash Drawer Pin Assignment**



Pin	Signal						
1	GND						
2	CD 1 SOLENOID						
3	STATUS						
4	12V / 24V						
5	CD 2 SOLENOID						
6	GND						

### **Cash Drawer Voltage Jumper**



#### **Cash Drawer Controller Register**

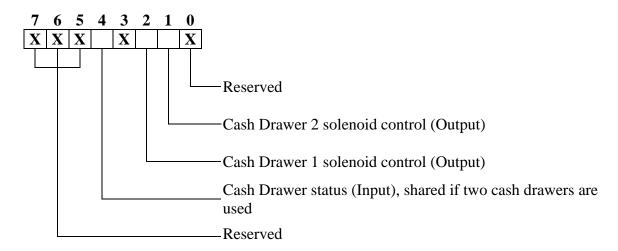
The Cash Drawer Controller use one I/O addresses to control the Cash Drawer.

**Register Location:** 4B8h

Attribute: Read / Write

Size: 8bit

BIT	BIT7	BIT6	BIT5	BIT4	BIT3	BIT2	BIT1	BIT0
Attribute	Reserved	Reserved	Reserved	Read	Reserved	Write	Write	Reserved



- Bit 7: Reserved.
- Bit 6: Reserved.
- Bit 5: Reserved.
- Bit 4: Cash Drawer "DIN bit0" pin input status, = 1: the Cash Drawer closed or no Cash Drawer.
  - = 0: the Cash Drawer opened.
- Bit 3: Reserved.
- Bit 2: Cash Drawer "DOUT bit0" pin output control.
  - = 1: Opening the Cash Drawer
  - = 0: Allow closing the Cash Drawer
- Bit 1: Cash Drawer "DOUT bit1" pin output control.
  - = 1: Opening the Cash Drawer
  - = 0: Allow closing the Cash Drawer
- Bit 0: Reserved

Note: Please follow the Cash Drawer control signal design to control the Cash Drawer.

#### **Cash Drawer Control Command**

#### In DOS debug:

	Command	Cash Drawer			
	O 4B8 04	Open, Fire solenoid			
	O 4B8 00	Allow to closing			
>	Set the I/O address 4B8h bit2 = 1 to turn on Cash Drawer 1 solenoid				
>	Set the I/O address 4E	88h bit2 = 0 to turn off Cash Drawer1 solenoid			

	Command	Cash Drawer			
	I 4B8	Check status, shared if two cash drawers in			
>	The I/O address 4B8h bit4 =1 means the Cash Drawer is closed or no Cash				
	Drawer is present				
>	The I/O address 4B8h	bit4 =0 means the Cash Drawer is open.			

If writing your own cash drawer driver do a read before write and only change the bits required. Only fire one cash drawer at a time. Most cash drawers require a 50ms pulse to fire and the timing must be controlled by the cash drawer driver. Do not fire longer the 100ms.

OPOS and Virtual Serial Port Cash Drawer drivers are available from J2 for the 580.

### **BIOS Settings**

#### **Starting the BIOS Setup**

- 1. Turn on or reboot this product.
- 2. Press the DEL key immediately after the product is turned on, or press the DEL key when the following message is displayed during POST (the Power on Self-Test).

#### Press DEL to enter SETUP.

- 3. The main menu of the BIOS setup is displayed.
- 4. If the supervisor password is set, you must enter it here.

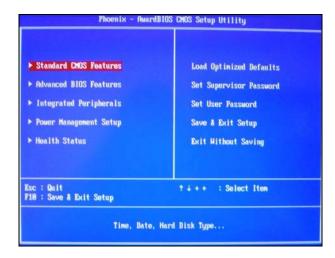
#### When a Problem Occurs

If, after making and saving system changes with the Setup utility, you find that this product no longer boots, start the BIOS setup and execute the following.

#### Load Optimized Defaults

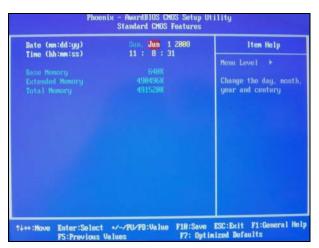
#### **BIOS Menus**

#### **BIOS Main Menu**



When the BIOS Main Menu is displayed, the following items can be selected. Use the arrow keys to select items and the Enter key to accept and enter the sub-menu.

#### **Standard CMOS Features**



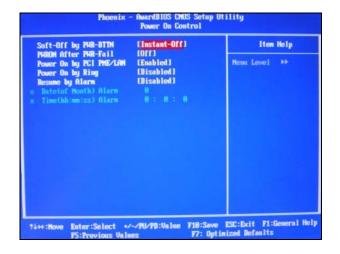
In this screen the CMOS time and date can be set. The time and date can also be set though the OS. The total memory installed in the system can be seen on this screen as well.

#### **Advanced BIOS Features**



In this menu the boot order maybe changed. Also the Keyboard num-Lock can be set as well as the logo display on boot up.

#### **Power Management**



The default function on the power switch can be set in this menu. The "PWRON After PWR-Fail" controls weather the unit will turn back on by itself after AC power is lost. The Power on "PCI PWE/LAN" can disable the Wake on LAN function.

#### **Integrated Peripherals**



This menu allows the HDD port to be disabled as well as the onboard audio. Under Super IO the COMM ports IRQ and PORT can be changed.

#### Health



This screen shows the current Health readings on the 580. A Windows based program is available from J2 that can access and display the same information.

### **Driver Installation**

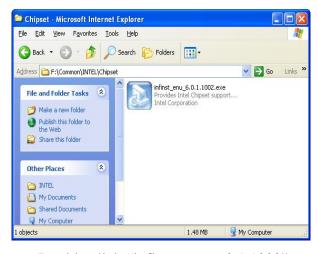
#### **Driver Download**

If you did not purchase your operating system from J2 you may download the drivers for the 580 system from the J2 web site <a href="http://www.j2retailsystems.com/support/580/">http://www.j2retailsystems.com/support/580/</a>. For Windows XP there are 5 drivers that need to be installed. They are:

- 1: Chipset drivers for i8XX chipset (i852GM in the case of the 580)
- 3: Intel i85X Video Drivers
- 4: POSTouch Touch Screen Driver
- 4: Realtek RTL8139 LAN Driver

Below are instructions to install the drivers. Since the drivers are updated on the J2 web site as needed the install instructions may vary from the ones show below.

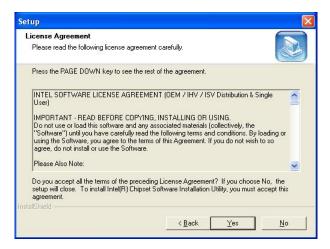
#### **Chipset Driver Installation**



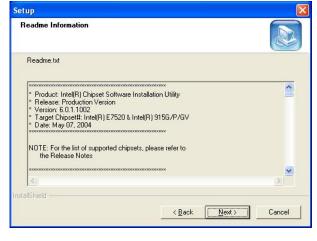
a. Double click "infinst\_enu\_6.0.1.1002" on the My computer window.



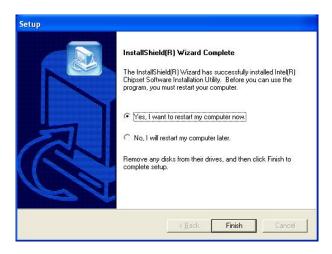
b. Click the "Next" button on the Welcome window.



c. Click the "Yes" button on the License Agreement window.

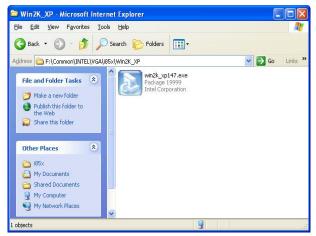


d. Click the "Next" button on the Readme Information window.



e. Click the "Finish" button and restart your system.

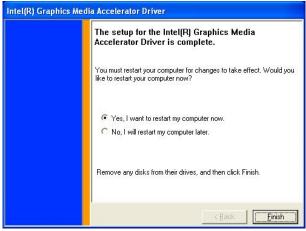
#### **VGA Driver Installation**



a. Double click "win2k\_xp147" on the My Computer window.

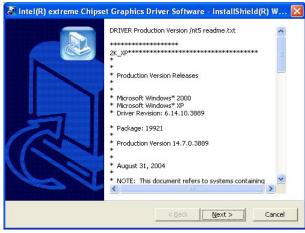


 c. Click the "Next" button on the Welcome window.



e. Click the "Finish" button and restart your system.

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 b. Click the "Next" button on the Welcome window.

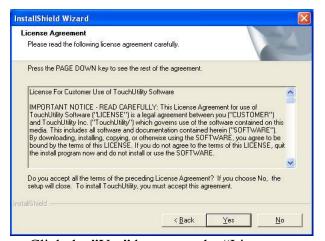


d. Click the "Yes" button on the License Agreement window.

#### **POSTouch Driver Installation**



a. Double click the "Setup" on the "My Computer" window.



c. Click the "Yes" button on the "License Agreement" window.

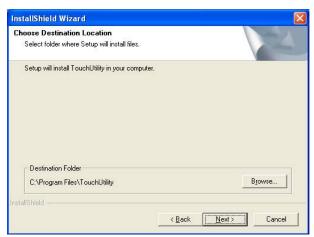


e. Click the "Next" button on the "Select Program Folder" window.

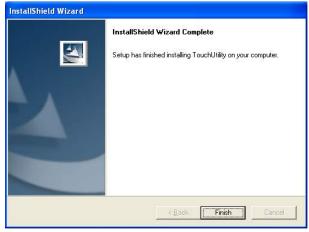
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b. Click the "Next" button on the "Welcome window".



d. Click the "Next" button on the "Choose Destination Location" window.



f. Click the "Finish" button on the "Install Shield Wizard Complete" window.



g. Click the "Continue Anyway "button on the "Hardware Installation" window.



i. After the computer has restarted, select "Programs → TouchUtility → Scan RS232 Touch Device".

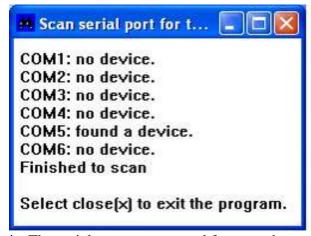


k. Select "Programs → TouchUtility → Touch Utility".

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h. Select the "Yes" and click the "OK" button and restart your system.



j. The serial ports are scanned for a touch device.



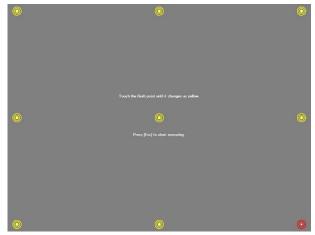
 Click "Scale / Offset" on the POSTouch Utility window.



m. Follow the instructions on the screen to do a three point calibration of the touch panel.

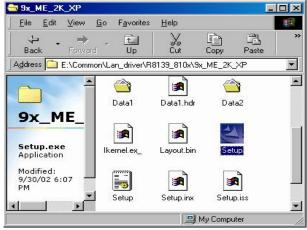


n. Select "Device →9Pts Calibration" on the POSTouch Utility window.

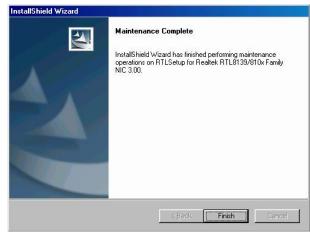


o. Follow the instructions on the screen to do a nine point calibration of the touch panel.

#### 10/100Mb LAN Driver Installation



a. Double click "Setup" on the My Computer window.



b. Click the "Finish" button on the Maintenance Complete window.



c. Click the "OK" button and restart your system.

#### **Additional Drivers/Utilities**

Additional drivers and utilities such as OPOS drivers, MSR program utility, 802.11g WIFI card drivers, cash drawer test utility, POS heath monitor software and others can be down loaded from J2 web site (link below). Please see the documentation and help files supplied with these drivers and utilities for more information.

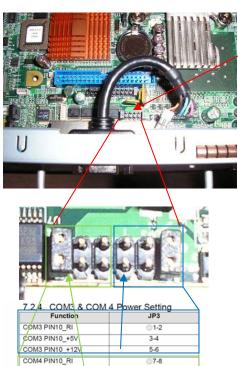
http://www.j2retailsystems.com/support/580/

# **Customer Display Option**

How to enable power and connect the cable for a 580 customer display



Slacken the two holding screws & slide the main board out of the unit.



Enable 12V for Com3 or Com4.
The Photo shows Com4 enabled



9-10

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COM4 PIN10\_+5V

COM4 PIN10\_+12V

Cable must be fitted correctly. The end with the shrink sleeve goes into the display, the other end to COM3 or COM4

### **Dip Switch and Software Setting**

**Command Type Selection** 

	2,50 % 21001201							
SW1	SW2	SW3	Command Type	Demo Mode Support	Default			
ON	ON	ON	POS7300	No	*			
OFF	ON	ON	EPSON ESC/POS	Yes				
ON	OFF	ON	ADM 787/ ADM 788	No				
OFF	OFF	ON	DSP800	Yes				
ON	ON	OFF	AEDEX/ EMAX	No				
OFF	ON	OFF	UTC/P	No				
ON	OFF	OFF	UTC/S	No				
OFF	OFF	OFF	CD5220	Yes				

### **Baud Rate Selection**

SW8	SW9	Baud Rate (bps)	Default
ON	ON	4800	
OFF	ON	9600	*
ON	OFF	19200	
OFF	OFF	38400	

**Parity Check Selection** 

SW10	<b>Parity Check</b>	Default
ON	None-parity	*
OFF	Even-parity	

### **Command Control**

<b>SW12</b>	Function					
ON	Depend on SW1~SW11 setting					
OFF	Bypass SW1~SW11 setting, fixed at:  Command type: POS7300,  Baud rate: 9600  Parity check: None-parity  Demo mode: Disable  International char set: USA, standard Europe					

### **International Character Set**

	International Character Set								
ID	SW 4	SW 5	SW 6	SW 7	SW 11	Character Set (20h – 7Fh)	Code Table (80H-FFH)	Default	Note
0	ON	ON	ON	ON	OFF	U.S.A.	CP-437 (USA, Standard Europe)	*	
1	OFF	ON	ON	ON	OFF	FRANCE			
2	ON	OFF	ON	ON	OFF	GERMANY			
3	OFF	OFF	ON	ON	OFF	U.K.	00.050		
4	ON	ON	OFF	ON	OFF	DENMARK I	CP-858 (Multilingual + Euro Symbol)		
5	OFF	ON	OFF	ON	OFF	SWEDEN	(Multillingual + Euro Symbol)		
6	ON	OFF	OFF	ON	OFF	ITALY			
7	OFF	OFF	OFF	ON	OFF	SPAIN			
8	ON	ON	ON	OFF	OFF	JAPAN	Katakana		
9	OFF	ON	ON	OFF	OFF	NORWAY	CP-858		
10	ON	OFF	ON	OFF	OFF	DENMARK II	(Multilingual+ Euro Symbol)		
11	OFF	OFF	ON	OFF	OFF	Slawie			
12	ON	ON	OFF	OFF	OFF	RUSSIA			
13	OFF	ON	OFF	OFF	OFF	U.S.A	CP-860 (Portuguese)		
14	ON	OFF	OFF	OFF	OFF	U.K.	Greek		
						U.S.A	CP-852 (Hungary)		
16	ON	ON	ON	ON	_	U.S.A	CP-862 (Hebrew)		
17	_			ON		U.S.A	CP-863 (Canadian-French)		
		OFF		ON		U.S.A	CP-865 (Nordic)		
	OFF			ON		U.S.A	CP-866 (Cyrillic)		
20			OFF			U.S.A	Windows-1251 (Cyrillic)		
			OFF			U.S.A	Windows-1252		
22			OFF			U.S.A	Windows-1255 (Hebrew)		
23	OFF	OFF	OFF	ON	ON	U.S.A	Windows-1257 (Baltic)		