Subject: TeamPoS 3000 XT Kiosk Terminal

SYNOPSIS

This document is intended to supply sufficient information to North American service planners to enable them to plan for the introduction of the above product(s).

This SPG is the generic version, released by the product authority, Fujitsu Transaction Solutions (FTXS), Sustaining Engineering. Each group releasing the product will use the information contained as the basis for their Logistics and Field Service planning activities.

This document details only the corporate philosophies, and does not seek to cover such subjects as additional services offered by Managed Services, third party service providers, low level repairs, or the local sourcing of components and consumable items.

The service descriptions in this document are guidelines, detailing the recommendations of the product authority. The information within this document has been reviewed for accuracy, but as with most documents, errors may be found and corrected in future revisions. Fujitsu Transaction Solutions (FTXS) cannot be held liable for any inaccurate information found in this document.

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0. DOCUMENT CONTROL

0.1. ISSUE LEVEL

This is the first issue of this document, introducing the TeamPoS 3000XT into the Fujitsu Transaction Solutions product line.

0.2. CHANGES FROM PREVIOUS ISSUE

None

0.3. TERMS AND ABBREVIATIONS

AFR	Annualized Failure Rate
CLD	Confidence Level Diagnostic Software
EMI	Electromagnetic Interference
ESD	Electrostatic Discharge
FDD	Floppy Disk Drive
FRU	Field Replaceable Units
FPY	Failures Per Year
HDD	Hard Disk Drive
MSR	Magnetic Strip Reader
MTBF	Mean Time Between Failures
MTTR	Mean Time To Repair
POH	Power On Hours
PSU	Power Supply Unit
RFR	Return for Repair
SPG	Support Planning Guide
UPC	Universal Product Code (Bar Code)
VFD	Vacuum Florescent Display

0.4. REFERENCE DOCUMENTS

* Product Announcement - pending
* Product Requirements Document
* Product Specification Document
* Installation and Maintenance Manual - pending

1. OVERVIEW

The TeamPoS 3000 XT is an all in one Point-of-Sale (PoS) terminal designed for installations that require a small footprint.. The TeamPoS 3000 XT offers functionality required by retail application software to support the environments found in most retail stores. Memory capacity and CPU type and speed are selectable.

Built on an industry standard platform, the TeamPoS 3000 XT leverages Intel embedded components and standard operating systems, software applications and peripherals. It supports standard PC components such as high-performance CPUs, memory, and hard disk. A variety of outputs are offered to connect industry standard peripherals.

This controller offers a 2.5" hard disk drive, on board LAN, 12.1 or 15" LCDs and a variety of operating systems. There is no cash drawer port on the terminal, consequently if a cash drawer is needed, it must be fired from a printer.

1.1. RELEASE SCHEDULE

Description	Release Date
TeamPoS 3000XT with 12.1" Resistive Touch	Dec. 2006
TeamPoS 3000XT with 15" Resistive Touch	Dec. 2006
TeamPoS 3000XT with 15" IR Touch	Dec. 2006
TeamPoS 3000XT with 12.1" Resistive Touch / Wireless	TBD
TeamPoS 3000XT with 15" Resistive Touch / Wireless	Dec. 2006
TeamPoS 3000XT with 15" IR Touch / Wireless	TBD

1.2. PRODUCT DESCRIPTION

TeamPoS 3000XT is primarily designed for use as a KIOSK device for customers desiring a compact footprint combined with powerful performance. The TeamPoS 3000XT is available only in black with three different displays and an option of wireless. Only one drive is supported.

A small Phillips head and flat head screwdriver are required for major component replacement. Hard disk drives are user swappable and are easily accessible by removing the top cover.

The TeamPoS 3000XT is not released with a floppy drive, however an external USB floppy drive can is plugged into USB ports C & D for booting from floppy. Only the Teac USB floppy is supported at this time.

1.3. SOFTWARE

Because there are several software options, none are standard with TeamPoS 3000XT. Other software components such as, device drivers and applications are configuration and customer specific. Also available are Remote Management and a Confidence Level Diagnostics program expected to be released by the 2nd quarter of FY 2006.

1.4. OPERATING SYSTEMS

The TeamPoS 3000XT control unit has been validated on Windows 2000, Windows XP, WEPOS, 2000 Server, 2003 server, and Suse Linux operating systems. DOS is not supported. Other operation systems may be certified in the future depending upon demand and business case.

1.5. HARDWARE

The TeamPoS 3000 XT is equipped with the following features:

- Two standard RS232 COM ports
- Four standard +5V USB ports
- Two +12V powered USB ports
- One +24V powered USB port
- One LAN port
- One VGA port

1.6. BIOS

The TeamPoS3000 XT BIOS will be released with version P12 with version P13 released shortly afterward. For a complete listing of the BIOS settings and defaults see the Installation and Maintenance manual.

1.7. USER CONTROLS

Power Switch (Left side of terminal)
Audio Adjustment (Under LCD)
Brightness Adjustment (Under LCD)

1.8 SPECIFICATIONS

Dimensions

	12.1" LCD		15" LCD	
Height	409 mm	16.1 in	432 mm	17.0 in
Width	305 mm	12.0 in	362 mm	14.3 in
Depth	292 mm	11.5 in	292 mm	11.5 in
Weight	12.2 kg	28.3 lbs	13.6 kg	30.1 lbs

Power Supply

Output Voltage	+3.3V	+5V	+5VSB	+12V	+24V
Output Current (continuous)	4.0A	15.0A	1.0A	9.5A	1.8A
Tolerance	+/- 4%	+/- 5%	+/- 5%	+/- 5%	+ 10% -3%
Input Voltage	100 -240 VAC				
Frequency	50/60 Hz				

Temperature & Humidity

Temperature	Operating	0°C ~ 40°C (32° to 104°F)
	Non-Operating	-5°C ~ 50°C (23° to 122°F)
Humidity	Operating	10 ~ 95% (Non-Condensing)
	Non-Operating	8 ~ 95% (Non-Condensing)

Shock & Vibration

Vibration	Operating	0.1G @ 3-100Hz, 0.2G @ 2-10Hz, & 1.0G @100-300Hz
	Non-Operating	0.4G @3-60Hz, & 2.0G @ 100-350Hz
Drop	Operating	A drop of 150cm (4′ 11″) to a concrete floor twelve times to the face, 8 times to each corner, and 6 times to each side.

Safety & Regulatory

ESD	Air Discharge	±15KV
	Contact Discharge	±9KV
EMI Standards		FCC class A, conforms to CISPR24 and EN55024
Safety Standard		UL/60950-1 1st Edition CSA C22.2 No 60950-1-03 1st Edition EN60950-1 1st Edition

1.9 OPTIONS

The TeamPoS 3000 XT has the following available options:

- Keypad/MSR
- customer displays with resistive and IR touch
- CPU's
- Memory upgrades
- OS preloads

CPU's

CPU's options are one of the following:

- 1.3 GHz Celeron "M"
- 1.5 GHz Celeron "M"
- 1.6 GHz Pentium "M"
- 2.0 GHz Pentium "M"

MEMORY

Memory options are one of the following:

- 256MB DDR
- 512 MB DDR
- 1 GB DDR
- 2 GB DDR

OPERATING SYSTEMS

Operating systems can be preloaded onto the TeamPoS 3000 terminal with any of the following:

- Windows 2000 Pro
- Windows XP Pro
- Windows APE Server
- Windows XP Embedded
- Windows 2003 Server inch 5 CAL
- Windows Pro OEM Unrestricted
- WEPOS

PERIPHERALS

The TeamPoS3000 XT supports and has been validated with the following peripheral devices:

- 133UQ keyboard
- 92U Keyboard
- DT50III Printer
- CT10 Printer
- D22 LCD
- D25 LCD
- VF60 Display
- TP15 Cash Drawer

1.10 PRODUCT PERFORMANCE

RELIABILITY

Appendix A contains a work sheet for calculating the anticipated failure rate of a typical customer installation.

Description	MTBF	MEASURE
Motherboard	100,000	Hours
CPU	10,000,000	Hours
HDD (40GB and 80GB)	300,000	Hours
Power Supply Unit	100,000	Hours
Power Supply Fan @ 25C (Considered failure at 90% of rotation speed)	150,000	Hours
256MB DDR Memory	18,518,519	Hours
512MB DDR Memory	37,037,038	Hours
1GB DDR Memory	18,518,519	Hours
CPU/Chassis Fan	25,000	Hours
Keypad	10,000,000	Keystrokes
D22/D25 MSR	300,000	Swipes
VF60 Display	100,000	Hours
Docking Backplane	100,000	Hours

LIFE EXPECTANCY

The design life expectancy for the components are as follows.

Description	Life
40GB and 80GB HDD	More than 5 years at normal conditions
PSU Fan	More than 150,000 hours
Lithium Battery	More than 10 Years
D22/D15 Resistive Touch Panel	More than 35 million touches
D22/D25 Backlight Panel Life (Considered failure at 50% brightness)	More than 50,000 hours
D25 I/R Touch Panel	100,000,000 touches

Notes: For the above MTBF and Life Expectancy to be met the following conditions are assumed

1) The temperature condition is 25°C.
2) The life span is chosen from the parameter obtained first.
3) The MTBF figures for the HDD will be greatly reduced if the HDD does read/writes 24 hours a day.
4) The life span is defined as maintaining 50% of specific brightness.
5) To obtain MTBF of the MSR, the head requires cleaning at regular intervals.
6) The MTBF and Life Expectancy of other peripherals may be found in the TeamPoS 3000 XL SPG
7) CPU and chassis fan MTBF and life is based upon 70% of normal rotational speed.

RESOURCES

The following sections list support, training, documentation, spares, repairs, and diagnostics available for this product.

2.1 SKILLS REQUIRED

Customer Service Representative:

A good working knowledge of Intel-based PC components, POS peripherals, I/O card installation and supported operating systems is required. Prior experience and knowledge of POS terminals and their associated peripherals, Confidence Level Diagnostics (CLD), and commercial off-the-shelf PC diagnostics is assumed.

Consultant/Project Manager:

Good working knowledge of PCs, supported operating systems, and specific application experience is assumed.

Repair Center Technician:

An in-depth understanding of Intel-based PC components, POS peripherals, I/O cards, and supported operating systems is required. Knowledge of Confidence Level Diagnostics (CLD) and commercial off-the-shelf PC diagnostics is assumed.

Experience with troubleshooting multilayer PWAs, including surface mount technology (SMT) is required.

2.2 TRAINING

Field Service training is under the discretion of each specific business unit. Sustaining Engineering will provide 'train the trainer' operations. The schedule and funding for training will be established on an individual case by case basis. All requests for training by Sustaining Engineering should be forwarded to the Sustaining Mailbox (reference the cover page).

Sustaining Engineering estimates that the Technical Publications listed are adequate for this product and additional training will not be necessary for Field Service personnel currently trained on similar Fujitsu products. The XT should be included in any future standard training provided to Fujitsu Field Service personnel.

INITIAL RELEASE TRAINING

Done on request through Sustaining Engineering.

ONGOING TRAINING

Ongoing training will be handled through Managed Services.

THIRD PARTY TRAINING

Done on request through Sustaining Engineering

2.3 TECHNICAL PUBLICATIONS

Part Number	Description
D900000172	Installation and Maintenance Manual

2.4 SPARES

The TeamPoS 3000 XT is a Fujitsu product and will follow standard spares lead times. It is assumed that organizations will spare the XT at the FRU level. Some customers/organizations however, may choose to spare the major assembly level with the lower level repair performed at a central repair center or depot. The spares list takes both of these methods into consideration. Spares will be stocked at the North America Logistics Center (Frisco, USA24) and whole units should be returned on a RMA to the Logistics Center.

Refer to Appendix E for Spares list.

These part lists are provided as a reference only. The Fujitsu PORT System is the final authority on part numbers and availability.

THIRD PARTY SPARES

Spares strategy, availability and process for Third Party (Dealer/VAR/Self Serve Customers) will be developed by Managed Services.

CONSUMABLE PARTS

User consumable parts and spares are available via normal ordering Channels and are replaceable by customers. Order consumable parts from FTXS SupplyPoint at 800-538-8716

2.5 REPAIR

North America Logistics Center (Frisco) offers repair services for the items they consider to be repairable. The OEM vendor also offers repair services that may be contracted by one of these repair centers or other organizations.

Logistics and Field Service organizations should utilize their own services to provide a test of units being returned from the field before shipment to repair centers as history has shown that not all units being returned from the field are actually faulty.

If faulty, logistics organizations may elect to have the repair done down to a component level replacement if parts and resources permit. However, this would be a local decision.

REPAIR STRATEGY

To be developed by Managed Services.

THIRD PARTY REPAIR

Repair strategy and process for Third Party (Dealer/VAR/Self Serve Customers) will be reviewed by a case by case basis with input from Sustaining Engineering and Managed Services.

FIELD REPAIR TIME

The following are time estimates for removing and replacing major assemblies on site. These time estimates do not include the time to diagnose the problem, gain clear access to the unit, or perform any software reloading to return the unit to full customer functionality. It is assumed that this service is performed by a qualified and trained FE.

Description	Replacement Time (min)
Memory Module	3 Min
CPU with heat sink	5 Min
Motherboard (Includes removing and reinstalling CPU, Fans, Memory and cables)	8 Min
Power Supply	6 Min
Bare Bones Replacement Chassis (Includes removing motherboard, cables, brackets, and disk drive from old chassis and installing in new chassis	3 Min
Average MTTR for Complete Unit	6 Min

Average MTTR for the Complete Unit is based upon these times and adjusted by the probability of a specific component failing.

REPAIR CENTER TIME

The following are time estimates for repairing FRU and assemblies in recommended Repair Centers.

Description	Repair Time (min)
Motherboard Repair	TBD
Bare Bones Unit Repair	TBD
LCD Repair	TBD

2.6 TOOLS

1 – Small Phillips head screwdriver
1 – Medium size Phillips head screwdriver
1 – Small flat head screwdriver

DIAGNOSTICS

- CLD
- PC Diagnostics Program

SERVICE TOOLS

- USB Key or flash disk with drivers and diagnostics loaded
- Powered USB tester

REPAIR TOOLS

None identified at this time.

3 SERVICE PROFILES

3.1 PREVENTATIVE MAINTENANCE

See Installation and Maintenance Manual for Specifications

3.2 CORRECTIVE MAINTENANCE

In the event of a failure the customer should be expected to confirm the malfunction by carrying out his or her own internal problem resolution procedures. If their procedures are unable to resolve the problem, they should contact their local Field Service/Support organization.

Field Service/Support organizations should provide a support desk facility whereby customers can telephone for advice before logging a service request. If telephone assistance is unable to resolve the problem, the local Field Service/Support organization should send a representative to assist, unless the RFR option/maintenance agreement was selected. Field Service/Support should affect on-site repairs to the FRU level recommended by their Field Service/Logistics management.

3.3 ESCALATION PROCEDURES

The escalation of product error reports or requests for assistance should take place in the following order. While some of these steps may be in the same organization, they are listed as individual steps to illustrate the 'functional' process flow.

Customer's Internal Service
First Line Support Service (Help Desk)
Field Service Organization
Field or Local Technical Support (FTS)
National Technical Support (NTS)
Sustaining Engineering
Development/Supplier Engineering – with Mgmt Escalation

Product reports raised on supported products or general inquiries should be sent to the Sustaining mailbox (reference the cover page).

THIRD PARTY ESCALATION

Escalation process for Third Party (Dealer/VAR/Self Serve Customers) have not been established at this time.

4 APPENDIX A: FAILURE PER YEAR WORKSHEET

The following are specific variables that need to be determined for your specific customer configuration when calculating Failures Per Year (FPY).

Description	Variables
Avg. Power On Hours per Year (8736 max)	(A)_____
Avg. 'Green Mode' Power On Hours per Year	(B)_____
Avg. Transactions per Trading Hour	(C)_____
Avg. Trading Hours per day	(D)_____
Avg. Trading Days per Week	(E)_____
Avg. Keystrokes per Transaction	(F)_____
Avg. Keylock Cycles per Transaction	(G)_____
Avg. MSR Usage's per Transaction (1 out of 3=.33)	(H)_____
Avg. Print Lines per Transaction	(I)_____
Avg. Cash Drawer Openings per Transaction	(J)_____
Avg. Transaction per Terminal Year (C*D*E*52wks)	(K)_____

Units Affected by Power On Hours:

Device	Power On Hours	/ MTBF Hours	= FPY
*	(A)_____	/ *	= _____
*	(A)_____	/ *	= _____
*	(A)_____	/ *	= _____
*	(A)_____	/ *	= _____
*	(A)_____	/ *	= _____
		Power On Total	_____

Units Affected by Green Mode Operational Hours:

Device	Power On Hours	/ MTBF Hours	= FPY
*	(B)_____	/ *	= _____
*	(B)_____	/ *	= _____
*	(B)_____	/ *	= _____
*	(B)_____	/ *	= _____
*	(B)_____	/ *	= _____
		Green Mode Total	_____

Units Affected by Mechanical Usage:

Keyboard:	(F) x (K) / *	= _____
Keylock:	(G) x (K) / *	= _____
MSR:	(H) x (K) / *	= _____
Printer:	(I) x (K) / *	= _____
Cash Drawer:	(J) x (K) / *	= _____
	Mechanical Total	_____

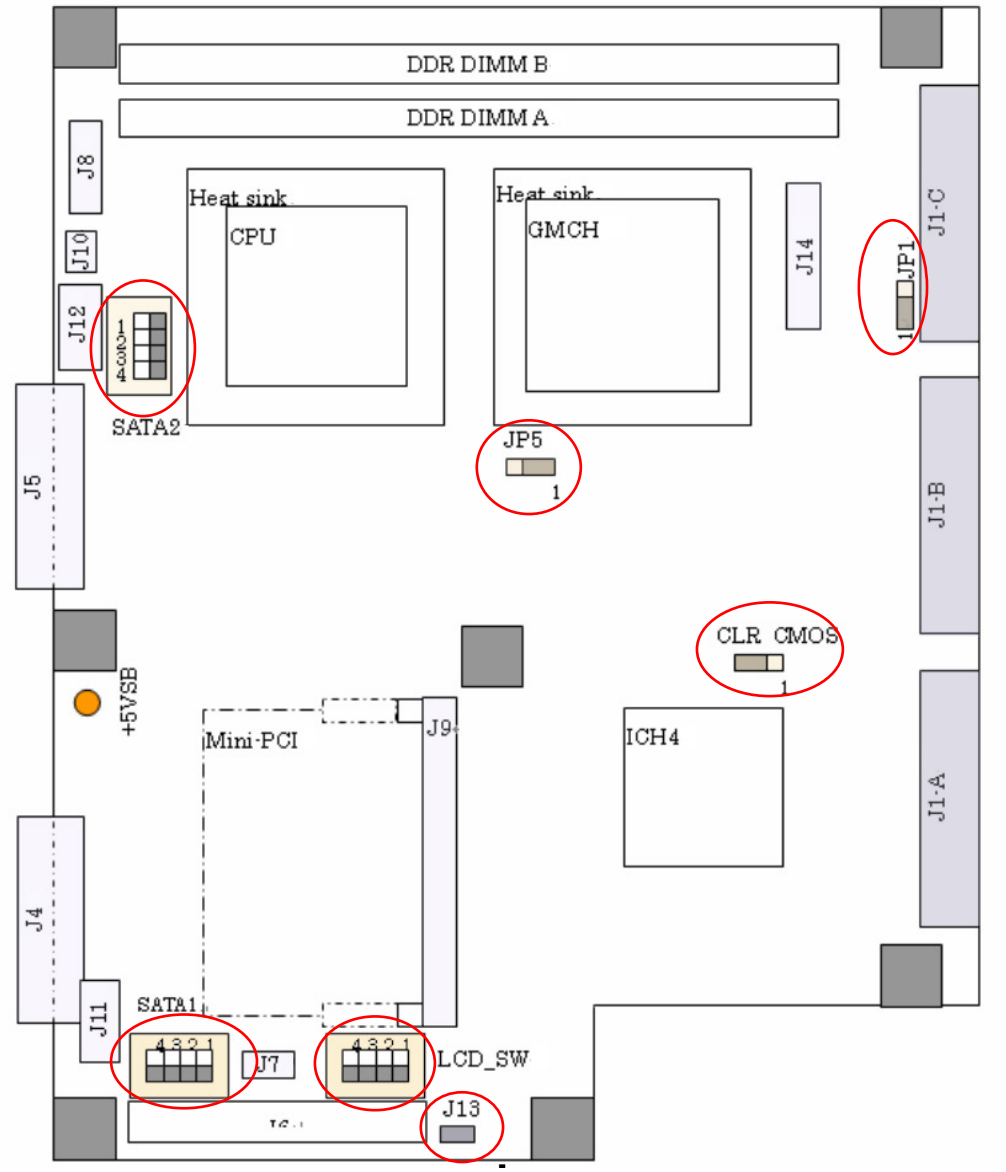
Total for your customer configuration (per lane):

Power On Total	_____
Green Mode Total	_____
Mechanical Total	_____
Total FPY Per Lane	_____

Note: This total does not include failures resulting from use of consumables (batteries, print heads, etc.), cables, software/firmware based problems, no-fault-founds, or resulting from use not considered standard for this type of equipment.

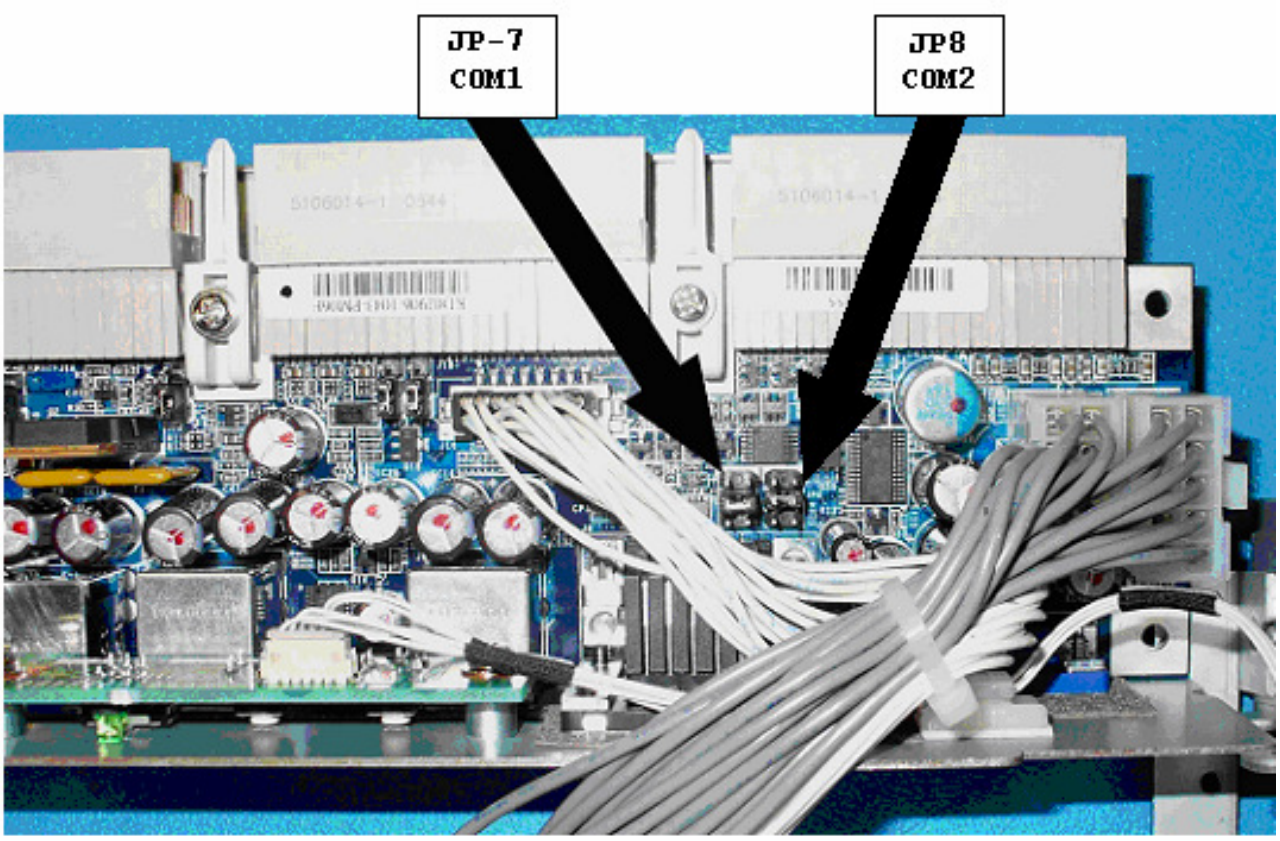
5 APPENDIX B: SWITCH AND JUMPER SETTINGS

MOTHERBOARD



<table>
<tr><th>Pin#</th><th>Function</th><th>Default Setting</th></tr>
<tr><td>JP1</td><td>Video source selection of 1st display
1-2 DVI Interface (for M/M)
2-3 LVDS Interface (for KIOSK)</td><td>2-3</td></tr>
<tr><td>JP5</td><td>VCCA voltage selection
1-2 VCCA is 1.3V for Pentium M and Celeron M with FSB 400MHz
2-3 Not used. For future use.</td><td>1-2</td></tr>
<tr><td>J13</td><td>Beep sound enable
Short Beep sound enable
Open Beep sound disable</td><td>Short</td></tr>
<tr><td>CLR_CMOS</td><td>CMOS Clear
1-2 CMOS Clear
2-3 Normal</td><td>2-3</td></tr>
<tr><td>LCD_SW</td><td>Panel selection for LVDS panel
<table>
<tr><th>1</th><th>2</th><th>3</th><th>4</th><th>Panel</th></tr>
<tr><td>OFF</td><td>OFF</td><td>OFF</td><td>–</td><td>12.1 inch SVGA</td></tr>
<tr><td>ON</td><td>OFF</td><td>OFF</td><td>–</td><td>15 inch XGA</td></tr>
<tr><td colspan="3">Other setting</td><td>–</td><td>Reserved</td></tr>
</table></td><td>12.1” 15”
1…OFF ON
2…OFF OFF
3…OFF OFF
4…OFF OFF</td></tr>
<tr><td>SATA1</td><td>Connector selection of 1st SATA HDD
<table>
<tr><th>1</th><th>2</th><th>3</th><th>4</th><th>Panel</th></tr>
<tr><td>ON</td><td>ON</td><td>ON</td><td>ON</td><td>J4 (for M/M)</td></tr>
<tr><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td><td>J11 (for KIOSK)</td></tr>
<tr><td colspan="4">Other setting</td><td>Prohibited</td></tr>
</table></td><td>1…OFF
2…OFF
3…OFF
4…OFF</td></tr>
<tr><td>SATA2</td><td>Not used.</td><td>n/a</td></tr>
</table>

DOCKING BACKPLANE



JUMPER PACK	JUMPER SETTING	DESCRIPTION	
JP-7 (COM1)	1-2	RS232 Standard	Default
JP-7 (COM1)	3-4	5VDC	
JP-7 (COM1)	5-6	12VDC	

JUMPER PACK	JUMPER SETTING	DESCRIPTION	
JP-8 (COM2)	1-2	RS232 Standard	Default
JP-8 (COM2)	3-4	5VDC	
JP-8 (COM2)	5-6	12VDC	

Note: Jumper settings for COM1 and COM2 are set during the build process and changing these jumpers are not recommended once equipment is in the field.

6 APPENDIX C: CONNECTORS AND PINOUTS

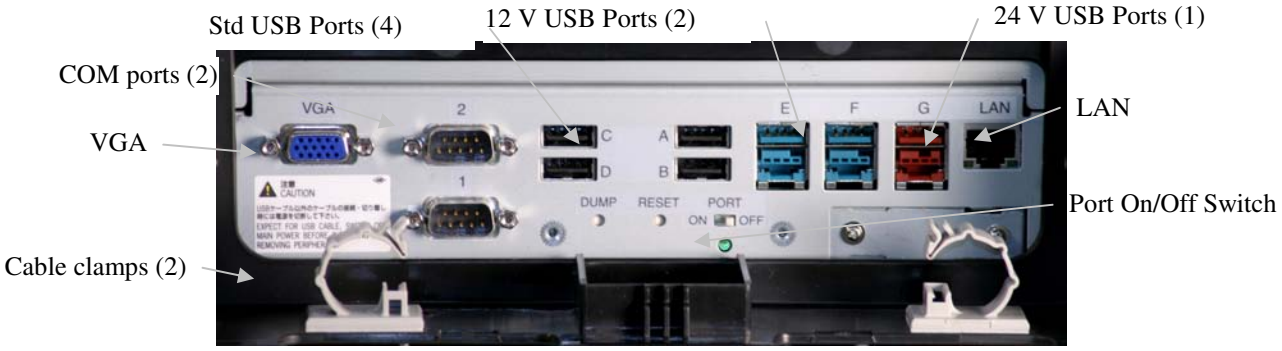


Figure A. I/O Panel Details

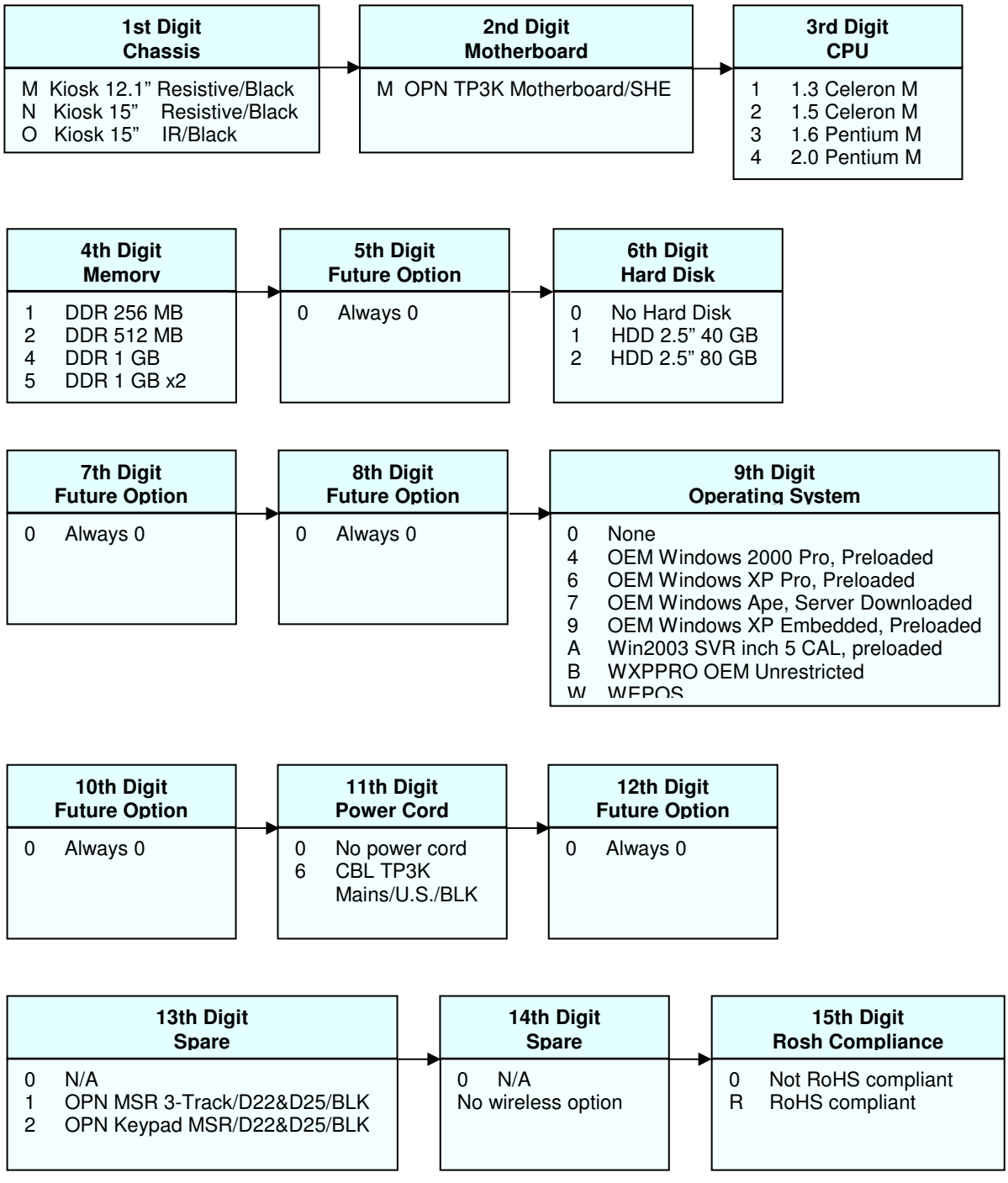
	Standard USB Ports	COM1 & 2		USB +24V	USB +12V
	Connectors A, B, C, & D	With +5V Power	Without +5V Pwr	Red powered USB connector	Green powered USB connectors
1	5V USB Pwr	NC	CD	5V USB Pwr	5V USB Pwr
2	Data -	RX	RS	Data -	Data -
3	Data +	TX	TX	Data +	Data +
4	Gnd	DTR	DTR	Gnd	Gnd.
5		SG	SG	+24V Return	+12V Return
6		DSR	DSR	+24V Pwr	+12V Pwr
7		RTS	RTS	+24V Pwr	+12V Pwr
8		CTS	CTS	+24V Return	+12V Return
9		+5V	RI		

7 APPENDIX D: ORDERABLE CONFIGURATIONS

Below is the items that are Orderable or Whole Unit Configurations.

DESCRIPTION	PIN/PART NUMBER
Kiosk Chassis, 15” LCD, Resistive Touch, Black	11001281
Kiosk Chassis, 15” LCD, IR Touch, Black	11001282
Kiosk Chassis, 15” LCD, Resistive Touch, Black, Wireless	11001284
Kiosk Chassis, 15” LCD, IR Touch, Black, Wireless	11001285
Note: These are bare bones configurations, customer configurations are ordered by the intelligent PIN	

Intelligent PINs (Product Identification Numbers)



8 APPENDIX E: SPARES LIST

These part lists are provided as a reference and planning purposes only. The Fujitsu PORT System is the final authority on part numbers and availability.

Many of the spare parts for the various TeamPoS 3000 models are the same. The following parts list includes both FRU and Whole Unit Assembly (**bolded**) levels. Crossed out parts are withdrawn or obsolete, included for reference only.

CABLES AND LABELS				
Description	**Part Number**	**12" Res**	**15" Res**	**15" IR**
CABLE(12LCD)	KD02906-0831	1		
CABLE(15LCD)	KD02906-0841		1	1
CABLE(BATT)	KD02906-1701	1	1	1
CABLE(DKG-I/F)	KD02906-0821	1	1	1
CABLE(EX-PSU)	KD02906-0851	1	1	1
CABLE(OP1)	KD02906-0801	1	1	1
CABLE(OP2)	KD02906-0811	1	1	1
CABLE ASSY(SATA DRIVE)	11001544	1	1	1
CABLE ASSY(HDD POWER)	11001545	1	1	1
CABLE ASSY(FAN EXTENSION)	11001546	1	1	1
CABLE ASSY (WIRELESS)	11001554	1	1	1
PL LABEL	KD91313-0842	1	1	1
B/B LABEL	KD91314-085X	1	1	1

FRAME AND COVERS				
Description	**Part Number**	**12" Res**	**15" Res**	**15" IR**
MB MOUNTING BRACKET	11001548	1	1	1
HDD COVER ASSY	KD30277-E731	1	1	1
PSU METAL ASSY	KD30277-E782	1	1	1
MB RELEASE HANDLE	11001550	1	1	1
HDD LOCKING BRACKET	11001552	1	1	1
TOP COVER	KD30277-Y712	1	1	1
PWR COVER	KD30277-Y715	1	1	1
PWR PANEL	KD30277-Y716	1	1	1
SIDE COVER	KD30277-Y763	2	2	2
BATT COVER	KD30277-Y768	1	1	1

LCDS				
Description	**Part Number**	**12" Res**	**15" Res**	**15" IR**
12LCD SET	KD02907-6601	1		
15LCD SET	KD02907-6621		1	
15LCD SET	KD02907-6631			1

POWER SUPPLY				
Description	**Part Number**	**12" Res**	**15" Res**	**15" IR**
PSU	KD02906-1100	1	1	1

DOCKING BOARD				
Description	**Part Number**	**12" Res**	**15" Res**	**15" IR**
DOCKING BOARD	KD02906-1043	1	1	1

MISC 2

Description	Part Number	12" Res	15" Res	15" IR
CABLE CLAMP	L0KD30277-0953	3	3	3
CYLINDER LOCK	L0KD30277-0952	1	1	1
FOOT RUBBER	KD30277-Y671	4	4	4
ACETATE TAPE	CT-570F-TERAOKA	*	*	*
Tool	KD30277-Y759	1	1	1

MOTHERBOARD		
Description	**Part Number**	**Comments**
OPN TP3K Motherboard/SHE	11000021	Includes plate

CPU OPTIONS		
Description	**Part Number**	**Comments**
OPN TP3K CPU/1.3 Celeron M	11000027	
CPU, Intel, Celeron M, 1.3 GHz	11000240	Same as 90000962
OPN TP3K CPU/1.5 Celeron M	11000028	
CPU, Intel, Celeron M, 1.5 GHz	11000234	
OPN TP3K CPU/1.6 Pentium M	11000029	
CPU, Intel, Pentium M, 1.6 GHz	11000239	Same as 90000833
OPN TP3K CPU/2.0 Pentium M	11000241	
CPU, Intel, Pentium M, 2.0 GHz	11000242	
HEATSINK – Socket 479	11000235	
Fan, Chassis or CPU w/cable assy	11001543	

MEMORY OPTIONS		
Description	**Part Number**	**Comments**
OPN TP3K Memory/DDR/256MB	11000022	Same as 90000784
OPN TP3K Memory/DDR/512MB	11000023	Same as 90000785
OPN TP3K Memory/DDR/1GB	11000024	Same as 90000786
OPN TP3K Memory/DDR/2G	11000095	1G x 2

HARD DISK OPTIONS		
Description	**Part Number**	**Comments**
OPN TP3K HDD ASSY/2.5"/40GB	11000030	
HDD/2.5"/40GB	11000243	
HDD/2.5"/80GB	11001556	
TP3K 2.5" HDD Bracket	11000278	
Screw	11000594	
Plastic Pull Tab	11000732