

System 5000 PTU
PTU Top Assembly
Revision: A
Date: 4/27/2007

Qty	Value	Description	Designator	Footprint	Comment	Manufacturer	Part#
1	1/16 inch	3M™ Urethane Foam Tape 4116 White, 1/16 inch	B2		Place on top of back-up battery for drop test	3M	4116
1		Serialization Label			P-Touch Label maker label barcoded w/nums under	Alltron Sourced	
1		4.2 V Single Cell Li Battery	BT1	B 2B-EH-A	4.2 V Single Cell Li Battery	Electrotek	AVT-900494 Rev A
1		FEMA 128x128 I2C LCD Display	LCD 2	ZF5-28-02-TM-WT-TR Reverse	FEMA 128x128 I2C LCD Display	FEMA Electronics	CG128128E-FWT1N-12
1	NA	PTU Housing	Navigation Switch			Hanaco Manufacturing	PTU-0004-T1
1	NA	GPS Antenna	P15		Complete GPS Antenna	Jiashan JinChang Electronic Co	GAACZ-N - coded 1575R-AU
1	NA	Motor, General Kind	Motor	NA	Motor	JinLong Machinery(motor)	Z6DL2B0050001
2	NA	Motor Connector	Motor Connector Contacts	NA	Motor Connector Contacts	JST(conn)	ZH-002T-P0.5
1	NA	Motor Connector	Motor Connector Housing	NA	Motor Connector Housing	JST(conn)	ZHR-2
1		Header, 4-Pin	Cell Ant Mount	cell ant mount	Rt Angle Board mount SMA to Rt angle GSC 35 mm cable	KJ Comtech	K99-249-000
1	NA	LCD Gasket	LCD Gasket			Marian Corporation	PTU-0011-T1
1	NA	Round Speaker filter no adhesive	Speaker Filter			Marian Corporation	ISECURRDSPKRFLT
1	NA	Square Speaker Filter with adhesive	Speaker Filter			Marian Corporation	ISECURSQSPKRFLT
1	NA	Square Foam Gasket - Light blocking gasket	On top of U13	NA	Black Foam gasket covers all light to the sensor unless case	Marian Corporation	IST-PTU-0099
2	3.25 in	BLK-STRANDED-HOOKUP WIRE 22 AWG	E1, E2	40 mil hole	Antenna - 3.25 inch Wire Antenna	Magnet Wire	C2016B-1000-ND
17		Assembly Screws			2-28 1/4" Flathead Torx #6	McMaster-Carr	95893A153
1		Header, 4-Pin	Cell Ant Mount	cell ant mount	Green Dot Stubby Antenna	Mobile Mark	42/PSTG0900/1900
1	NA	Water Detection Sticker	See assembly doc	NA	.25" x .25" plain label with no imprint	NovaVision	C-1025
2		Antenna Tie Point	CT1, CT2	Ant Tie	Header 2	Panduit	PLT.6SM
1	NA	PTU Housing	Base			Prism Plastics	PTU-0002-T2
1	NA	PTU Housing	Cell Antenna Shroud			Prism Plastics	PTU-0003-T2
1	NA	PTU Housing	Cover			Prism Plastics	PTU-0001-T3
1	NA	PTU Housing	IR Window			Prism Plastics	PTU-0007-T2
1	NA	PTU Housing	Light Plate			Prism Plastics	PTU-0009-T1
1	NA	PTU Housing	Printed LCD Display Window			Prism Plastics	PTU-0010-T1
1	NA	PTU Housing	Sub-Chassis			Prism Plastics	PTU-0006-T4
1	NA	PTU Housing	Tamper Plug			Prism Plastics	PTU-0008-T1
1		Loudspeaker	LS1	RDG-08B	Speaker	Star Micronics	RDG-08B
1		Microphone	MK1	MAA-04B-SA2	Mic1	Star Micronics	MAA-04B-SA2
1			P2	Zebra Pads 20		Z-axis	ZFill 067 Rev C
1		zebra pads	SNDBtoB	Zebra Pads 8	Sound BtoB Connector	Z-axis	ZFill 068 Rev B
1	Rev A	Contact Board Assembly Rev A	Sub-assembly		built as a sub-assembly Job folder issued		
1	Rev A	LCD Board Assembly Rev A	Sub-assembly		built as a sub-assembly Job folder issued		
1	Rev A	Main PTU Board Assembly Rev A	Sub-assembly		built as a sub-assembly Job folder issued		

Designator	Footprint	Comment	Manufacturer	Part#
Housing Insert	NA	Shorted Center Pad with Outside pad	Alltron Sourced	
Housing Insert	NA	100 mil SIP Header	Samtec	MTSW-102-08-L-S-330

Footprint	Comment	Manufacturer	Part#
NA	REV J	Alltron Sourced	
NDT-03A	NDT-03A	Star Micronics	NDT-03A
402	Cap	Panasonic	ECJ0EB1A104K
805	Cap	Murata	GRM219R61E225KA12
402	Cap	Panasonic	ECJ0EB0J105M
402	Cap	Panasonic	ECJ0EB1C103K
402	Cap	Panasonic	GRM188R61C105KA93D
603	Cap	Murata	LW Y2SG-VHAF-EKJM-1
L-TW-270TLA	LED1	OSRAM	H20603B112R-10
603	Inductor	Steward	FH12-28S-0.5SH(S5)
ZF5-28-02-TM-WT-TR Reverse	LCD Flex cable connector	Hirose	2N3904
SOT23 new	2N3904	NOP	Res3
402	Res3	NOP	Res3
402	Res3	Panasonic	ERJ2GEJ104X
402	Res3	Panasonic	ERJ2GEJ103X
QFN50P200X200X10	FAN5613	Fairchild Semiconductor	FAN5613MPX
402	Res3	Panasonic	ERJ2GEJ473X

Manufacturer	Part#
JST(conn)	B2B-EH-A(LF)(SN)
Panasonic	VL2330-1F3
Panasonic	ECJ0EB1C103K
Venkel	C0402C0G500-681JNP
Venkel	C0402C0G500-121JNP
Venkel	C0402C0G500-1R8DTRP
Venkel	C0402C0G500-470JNP
Venkel	C0402C0G500-120JNP
Venkel	C0402C0G500-180JNP
Venkel	C0402X7R160-104KNP
Venkel	C0402C0G500-220JNP
Venkel	C0402C0G500-2R2CNP
Venkel	C0402C0G500-102JNP
Panasonic	ECJ-1VB0J106M
Panasonic	ECJ0EB1A333K
Panasonic	ECJ0EB0J224K
Rohm	TCA0J476M8R
Panasonic	ECJ3YF1A226Z
Panasonic	ECJ0EC1H150J
Kemet	T494A686K004AS
Panasonic	ECJ-1VB1C105K
Panasonic	ECJ0EB0J474K
Panasonic	ECJ0EB0J105M
Panasonic	ECJ0EB1H471K

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Panasonic	ECJ30EB1C104K						
Panasonic	ECJ30EB1H102K						
Panasonic	ECJ30EB1A104K						
Venkel	C0402C0G500-6R8CNP						
Venkel	C0402C0G500-270JNP						
Venkel	C0402X7R160-104KNP						
Venkel	NOP						
Venkel	C0402C0G500-4R7CNP						
Venkel	C0402C0G500-101JNP						
Venkel	C0402C0G500-6R0CNE						
Venkel	C0402C0G500-8R2CNP						
Venkel	C0402C0G500-1R0CNP						
Venkel	C0402C0G500-5R6CNP						
Venkel	C0402C0G500-3R9CNP						
Venkel	C0402C0G500-331JNP						
Venkel	C0402C0G500-100JNP						
ON Semiconductor	MURA240T3G						
LITE-ON	LTST-C190KRKT						
Samtec	SSW-102-01-S-S						
Steward	HZ0603B112R-10						
Panasonic	ERJ-3GEY0R00V						
Venkel	LMC1005-18NJT						
Venkel	LMC1005-R10JT						
CoilCraft	1008CS-270XJLC						
Venkel	LMC1005-15NJT						
Venkel	LMC1005-56NJT						
Venkel	LMC1005-27NJT						
Venkel	LMC1005-4N7KT						
TDK	MLF1608E120KT						
Venkel	LMC1005-33NJT						
Venkel	LMC1005-22NJT						
Panasonic	ERJ-3GEY0R00V						
Venkel	LMC1005-39NJT						
Venkel	C0402C0G500-120JNP						
Venkel	C0402C0G500-102JNP						
Altron Sourced							
JST(conn)	B 2B-ZR						
None	NOP						
Sunridge	MCBG-ST-00T						
NOP	NOP						
NOP	NOP						
AnyData/NAIS	AXK5F00545J						
AnyData/NAIS	DTG2000						
Leadtek	LR9805 III						
NOP	NOP						
NOP	NOP						
International Rectifier	IRLML6401						
Fairchild Semiconductor	MMBT3904						
NEC (CEL)	NE85619						
ON Semiconductor	MMBT2222ATT1G						
Panasonic	ERJ-2GE0R00X						
Panasonic	ERJ2RKF10R0X						
Panasonic	ERJ2GEJ393X						
Panasonic	ERJ2GEJ102X						
Panasonic	ERJ2GEJ330X						
Panasonic	ERJ2RKF1871X						
Panasonic	ERJ2GEJ103X						
Panasonic	ERJ2GEJ104X						
Panasonic	ERJ2GEJ101X						
Panasonic	ERJ2GEJ223X						
Panasonic	ERJ2GEJ154X						
Panasonic	NOP						
Panasonic	ERJ2GEJ473X						
Panasonic	ERJ2GEJ101						
Koaspeer	RK73B1ETTP333J						
Panasonic	ERJ2GEJ333						
Panasonic	ERJ2GEJ103						
Panasonic	ERJ2GEJ471						
Bourns	CAT16-473J4						
Diodes Inc.	DLP05LC						
Maxim	MAX6367LKA26						
Agilent	HSDL-7002						
Zilog	ZHX1403MA115TH2090TR						
Agilent	HSDL-9000						
Maxim	DS1672U-33+						
Linear Technology	LT11761ES5-1.5						
Maxim	MAX1749						
Texas Instruments	TPA2005D1DRBR						
Samsung	K1S32161CD-F17000						
On Semiconductor	NLSF308MN						
STMicroelectronics	STR710FZ2H6						
STMicroelectronics	M45PE80						
Philips	PCA9535BS						
MEMSIC	MXA6500E						
Maxim	MAX1508ZETA						
Texas Instruments	TPS73633DBV						
NEC (CEL)	uPG2151TSK-E2-A						
Melexis	TH71221.1						
Sunny	SF-04392						
RF Monolithics	RF1295C						
Microchip	PIC18LF4420-4/ML						
ON Semiconductor	MAX809JTR or MAX809JTRG (lead free)						
Kyocera	KC2520A4.00000C30E00						
FOX Electronics	FSN327						
Murata	CDSCB10M7GA119-RO						
Murata	SFVLF10M7MF00-B0						
ECS	ECS-120-20-30B-CKM-TR						