

Index of CDPD 2 Piece (Watch & Pager) Bill of Material Status Report

For any questions or comments contact:

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Production Manager

Digital Angel Systems

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Section 1

CASE SUBASSEMBLY - List of all items that pertain to the outer pager style case, on off switches and
Consisting of 13 items. Row 59 thru 71
Missing Lead times, Part Numbers, Symbol in Schematic, and Supplier Inform
to be provided by Dr. Chen and Dex.

Section 2

MOTHER BOARD SUBASSEMBLY -List of all surface mount componets and the circuit board.
Consisting of 46 items. Row 78 thru 123
5 Intergrated Circuits delayed due to payment issues. 4 due in 5 days. Last c
868 RX Chips awaiting payment. Production will start without waiting for thes
Missing Lead times, Part Numbers, Qty in Subassembly, Symbol in Schemati
to be provided by Dr. Chen and Dex.

Section 3

BATTERY SUBASSEMBLY - List of all the charging and battery systems components.

Consisting of 5 items. Row 115 thru 120
Missing Lead times, Part Numbers, Symbol in Schematic, and Supplier Information provided by Dr. Chen and Dex.

Section 4

GPS SUBASSEMBLY - List of all GPS components.

Consisting of 6 items. Row 129 thru 134
Need pricing and manufacturer of some items from Dex.

Section 5

CDPD SUBASSEMBLY - List of all CDPD components.

Consisting of 4 items. Row 140 thru 143
No open issues.

Section 6

WATCH ASSEMBLY - List of case, populated PCBA, and sensors that are the components of the watch.

Consisting of 3 items. Row 148 thru 150
No open issues.

Section 6

Packaging - List of blister pack, shipping & return boxes, manuals, packaging material

To be supplied by Michael, Pat, & David.

Note: FCC Approval process begins 2/25/02. Dex will hand carry samples.
This status report will be updated each Wednesday.

All blank lead times will be supplied by Dex.

The ORDER PRICE is in China RNB\$ or US\$. If there is no currency designator it is RNB\$. A single \$

The PIECE PRICE has been converted to US Dollars.

THE BILLS OF MATERIAL FOR DA CDPD 2 PIECE

CASE SUBASSEMBLY

COMPONENT	ITEM	P/N	QUANTITY ORDERED	ORDER PRICE	LEAD TIME	QTY IN SUBASSY	PIECE PRICE
MATERIAL	CASE (STD-VI)		1200	12,000.00		1	\$1.2195
	BOLT(FIX GPS MODULE)		2400	180.00		2	\$0.0091
	BOLT(FIX PCB)		3600	160.00		3	\$0.0054
	BOLT(FIX CASE)		2400	120.00		2	\$0.0061
	BOLT(FIX ANTENNA)		2400	400.00		2	\$0.0203
	INSULATOR BAND 55*67mm		1200	200.00		1	\$0.0203
	INSULATOR PAD 10*25mm		2400	240.00		2	\$0.0122
	INSULATOR TUBE 10mm		2400	200.00		2	\$0.0102
	LED(GREEN)		5000	1,100.00		1	\$0.0268

	IN4148	LL4148	5000	1,500.00		2	\$0.0366
	IN5817	1N5817	5000	4,000.00		1	\$0.0976
SWITCH	BUTTON		1050	420.00		1	\$0.0488
	CLICK		1050	630.00		1	\$0.0732

MOTHER BOARD SUBASSEMBLY

COMPONENT	ITEM	P/N	QUANTITY ORDERED	ORDER PRICE	LEAD TIME	QTY IN SUBASSY	PIECE PRICE
	NARROW RS232 CONN		1050	21,000.00		1	\$2.4390
	ACCELEROMETER SENSOR	ADXL202JE	1050	\$13,125.00	4 - 6 wks	1	\$12.50
	FALLDOWN PLUG2.0mm*4		3000	3,600.00			\$0.1463
DIODE&LED	LED(RED)		5000	1,100.00		2	\$0.0268
CAP.	30P(0603)	GRM39U2J300	5000	180.00		4	\$0.0044
	47P(0603)	GRM39U2J470	5000	180.00		1	\$0.0044
	102P(0603)	CL10B102KBNC	5000	180.00		3	\$0.0044

	103P(0603)	CS1608Y5V103Z	20000	720.00		9	\$0.0044
	104P(0603)	CS1608Y5V104Z	10000	360.00			\$0.0044
	1UF(1206)	TAJA105M016R	5000	3,000.00		1	\$0.0732
	1UF(0805)	CS1612Y5V105Z	5000	3,000.00			\$0.0732
	10UF(1206)	TAJA106M016R	10000	5,500.00		7	\$0.0671
	33UF(16V)	TAJA336M016R	5000	9,000.00		1	\$0.2195
RES. (0603)	1K	RC-03K102JT	5000	40.00		2	\$0.0010
	2K2	RC-03K222JT	5000	40.00		1	\$0.0010
	6K8	RC-03K682JT	5000	40.00		1	\$0.0010
	10K(1%)	RC-03K103FT	5000	80.00		2	\$0.0020
	10K	RC-03K103JT	10000	80.00		8	\$0.0010
	15K	RC-03K153JT	5000	40.00		1	\$0.0010
	22K(1%)	RC-03K223FT	5000	80.00		4	\$0.0020

	22K	RC-03K223JT	5000	40.00		3	\$0.0010
	100K	RC-03K104JT	20000	160.00		5	\$0.0010
	120K	RC-03K124JT	5000	40.00		1	\$0.0010
	150K(0603)	RC-03K154JT	5000	40.00			\$0.0010
	200K	RC-03K204JT	5000	40.00		1	\$0.0010
	220K(1%)	RC-03K204FT	5000	80.00		1	\$0.0020
	24.9K(1%)	RC-03K2492FT	5000	80.00		1	\$0.0020
	470K(0603)	RC-03K474JT	5000	40.00			\$0.0010
IC	MAX3243EAI	MAX3243EAI	1050	46,200.00		1	\$5.3659
	MAX1679EUA	MAX1679EAI	1050	22,050.00		1	\$2.5610
	MAX1692EUB	MAX1692EUB	1050	25,725.00		1	\$2.9878
	SMD10P06	SMD10P06	1050	1,050.00		1	\$0.1220
	XC61CC3402PR	XC61CC3402PR	1050	3,675.00		1	\$0.4268
	MAX3100CEE	MAX3100CEE	1050	29,400.00		1	\$3.4146
	MAX890L	MAX890LESA	1050	15,750.00		1	\$1.8293

	AT89LS53-12AI	AT89LS53-12AI	1050	30,990.00		1	\$3.5993
	MICROCONTROLLER	AT15L	1050	\$1,050.00	4 wks	1	\$1.00
	MICROCONTROLLER	AT15L	1050	\$1,050.00	4 wks	1	\$1.00
	TC CHIP	RFM RT5001	1050	\$12,600.00	4 wks	1	\$12.00
	RX CHIP	RFM RX5001	1050	\$8,400.00	4 wks	1	\$8.00
	HT7027A	HT7027A	1050	1,785.00		1	\$0.2073
	XC6204B332MR	XC6204B332MR	1050	4,410.00		1	\$0.5122
INDUCTOR	33uH	SMD4033	5000	9,000.00		1	\$0.2195
TRANS.	2N3904	2N3904	5000	500.00		1	\$0.0122
	2N3906	2N3906	5000	3,000.00		3	\$0.0732
PCB	PCB(STD-VI-10.PCB)		1050	7,307.00		1	\$0.8487

BATTERY SUBASSEMBLY

COMPONENT	ITEM	P/N	QUANTITY ORDERED	ORDER PRICE	LEAD TIME	QTY IN SUBASSY	PIECE PRICE
	BATTERY CONNECTOR		5000	2,500.00		1	\$0.0610

	CHARGER CONNECTOR		5000	2,500.00		1	\$0.0610
	BATTERY (1400mAH)	B103448	1050	36,750.00		1	\$4.2683
	CAR CHARGER(12-24/5/1A)		1050	26,250.00		1	\$3.0488
	POWER LINE 3.0*1.1		1050	1,800.00		1	\$0.2091
	CHARGER(110/5V,1A)		1050	31,500.00		1	\$3.6585

GPS SUBASSEMBLY

COMPONENT	ITEM	P/N	QUANTITY ORDERED	ORDER PRICE	LEAD TIME	QTY IN SUBASSY	PIECE PRICE
	GPS PLUG	USA	1	USA			
	GPS Receiver	3B2WT4NM-05S4AX	1050	\$61,950.00	3 wks	1	\$59.00
	GPS CONNECTOR	USA	1200	USA			
	GPS ANTENNA	VLA01B3MXC	1050	\$14,700.00	3 wks	1	\$14.00

CDPD SUBASSEMBLY

COMPONENT	ITEM	P/N	QUANTITY ORDERED	ORDER PRICE	LEAD TIME	QTY IN SUBASSY	PIECE PRICE
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	CDPD MODULE	649496 004613	1050	\$113,400.00	4 wks	1	\$108.00
	CDPD ANTENA		1050	MANUFACTURED IN HOUSE		1	#VALUE!
	CDPD CONNECTOR		1050	1,386.00			\$0.1610

WATCH ASSEMBLY

COMPONENT	ITEM	P/N	QUANTITY ORDERED	ORDER PRICE	LEAD TIME	OTY IN SUBASSY	PIECE PRICE
PIN	PIN 2.0mm*4		3000	3,600.00			\$0.1463
CRYSTAL	11.0592MHZ		1050	1,785.00			\$0.2073
	3.6864MHZ		1050	1,890.00			\$0.2195
SENSOR	THERMISTOR	WM303E	1050	\$840.00	4 wks	1	\$0.80
WATCH	CASE(STD-VI)		1200	30,000.00			\$3.0488
LCD	LCD & BINDING		1200	10,000.00			\$1.0163

PACKAGING

COMPONENT	ITEM	P/N	QUANTITY ORDERED	ORDER PRICE	LEAD TIME	QTY IN SUBASSY	PIECE PRICE

2/21/2002

| hardware.

nation

one due in 2 weeks.

se units.

ic, and Supplier Information

nation to be

ch.

; denotes US dollars.

SYMBOL IN SCHEMATIC	SUPPLIER	ADDRESS	PHONE	CONTACT
	YinHua Model LTD.			
	SEG ShenZhen			
	SEG ShenZhen			
	SEG ShenZhen			
	SEG ShenZhen			
	SEG ShenZhen			
	SEG ShenZhen			
	SEG ShenZhen			
LED2	SEG ShenZhen			

D2,D3	SEG ShenZhen			
D4	SEG ShenZhen			
SW1	SEG ShenZhen			
SW2	SEG ShenZhen			

SYMBOL IN SCHEMATIC	SUPPLIER	ADDRESS	PHONE	CONTACT
BT1	SEG ShenZhen			
	Pioneer Standard Electronics, Inc.	217 Technology Drive, Suite 110. Irvine, CA 92618	949 753-5518	Julie Connely
	SEG ShenZhen			
LED1,LED3	SEG ShenZhen			
C1,C2,C3,C4	SEG ShenZhen			
C19	SEG ShenZhen			
C31,C32,C33	SEG ShenZhen			

C8,C13,C16,C17,C18,C20,C21,C22,C24,C	SEG ShenZhen			
	SEG ShenZhen			
C5	SEG ShenZhen			
	SEG ShenZhen			
C10,C11,C12,C15,C23,C29,C34	SEG ShenZhen			
C7	SEG ShenZhen			
R23,R24	SEG ShenZhen			
R3	SEG ShenZhen			
R40	SEG ShenZhen			
R29, R28	SEG ShenZhen			
R1,R2,R8,R20,R21,R22,R27,R30	SEG ShenZhen			
R26	SEG ShenZhen			
R31, R32, R38, R39	SEG ShenZhen			

R42 R43 R44	SEG ShenZhen			
R4				
R5,R6,R9,R10	SEG ShenZhen			
R18	SEG ShenZhen			
	SEG ShenZhen			
R7	SEG ShenZhen			
R28	SEG ShenZhen			
R33	SEG ShenZhen			
	SEG ShenZhen			
U1	PONG YUEN ELECTRONIC			
U2	PONG YUEN ELECTRONIC			
U3	PONG YUEN ELECTRONIC			
U5	SEG ShenZhen			
U7	SEG ShenZhen			
U8	PONG YUEN ELECTRONIC			
	PONG YUEN ELECTRONIC			

U9	SEG ShenZhen			
U10	Insight MEMC	2 Venture Plaza, Suit 340 Irvine, CA 92618	949 788-6879	Nancy Halvorson
	Insight MEMC	2 Venture Plaza, Suit 340 Irvine, CA 92618	949 788-6879	Nancy Halvorson
	Insight MEMC	2 Venture Plaza, Suit 340 Irvine, CA 92618	949 788-6879	Nancy Halvorson
	Insight MEMC	2 Venture Plaza, Suit 340 Irvine, CA 92618	949 788-6879	Nancy Halvorson
U13	SEG ShenZhen			
U12	SEG ShenZhen			
L1	SEG ShenZhen			
Q4	SEG ShenZhen			
Q1,Q2,Q3	SEG ShenZhen			
	QingYunDa PCB LTD.			

SYMBOL IN SCHEMATIC	SUPPLIER	ADDRESS	PHONE	CONTACT
CN1	SEG ShenZhen			

CN2	SEG ShenZhen			
	HuaLi Electronics Ltd.			
	SEG ShenZhen			
	SEG ShenZhen			
	SEG ShenZhen			

SYMBOL IN SCHEMATIC	SUPPLIER	ADDRESS	PHONE	CONTACT
J1	USA			
	Axiom Navigation	3545 Howard Way, Costa Mesa, CA, 92626	714-444-0200 ext. 4087	Rick Sill
	USA			
	Axiom Navigation	3545 Howard Way, Costa Mesa, CA, 92626	714-444-0200 ext. 4087	Rick Sill

SYMBOL IN SCHEMATIC	SUPPLIER	ADDRESS	PHONE	CONTACT
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	Novatel Wireless	9360 own Centre Dr. Suit 110. San Diego, CA 92121	858 812-3435	Rand Efferon
	SEG ShenZhen			
	SEG ShenZhen			

SYMBOL IN SCHEMATIC	SUPPLIER	ADDRESS	PHONE	CONTACT
	SEG ShenZhen			
X1	SEG ShenZhen			
X2	SEG ShenZhen			
RT1	Sensor Scientific	6 Kings Bridge Rd. Fairfield, NJ 07004 USA	1 800 524-1610	
	HuaQiang ShenZhen			
	HuaQiang ShenZhen			

SYMBOL IN SCHEMATIC	SUPPLIER	ADDRESS	PHONE	CONTACT