

ITEM OPPORTUNITY SYNOPSIS

Name of the item to be scouted: Complete PCB board

State item to be used in: Pennsylvania

Describe the Item:

Please describe the item application/the end use of item. Complete PCB board for use in the PulStar G3 system. Potential for a full box build might be an option as well. - Internal Sense Technology part

Supplier Information:

Type of Supplier being sought (select from list below)

Manufacturer

Contract Manufacturer

Distributor

Other (please specify)

Reason for scouting submission (select from list below)

2nd Supplier

Price

Re-Shore

Past supplier no longer available

New Product Startup

BABA

Other (please specify)

Summary of Technical Specifications and Performance Requirements:

Describe the manufacturing processes (elaborate to provide as much detail as possible). wave solder and through-hole parts with PCB manufacture

Provide dimensions / size / tolerances / performance specifications of the item. PCB board approx 6 in x 5 in with max height of parts approx 1.5 in IPC-610, Class 2 workmanship standards

List required materials needed to make the product, including materials of product components, if applicable. Lead free solder with both surface and through hole parts required. See attached parts list.

Are there applicable certification requirements?

Yes

No

Please Explain: ISO 13485, ISO 9001

Are there any applicable regulations that apply to the production of this item?

Yes

No

Please Explain:

Are there any other standards, requirements?

Yes

No

Please Explain:

Additional Comments:

Additional technical comments: We need a supplier that is willing to do smaller runs of 25 - 50 currently. Hoping to keep cost down as well.

Volume and Pricing:

Estimated Potential Business Volume (i.e. #Units per day, month, year): 25 - 50 units per year

Estimated Target Price / Unit Cost Information: 600.00 or less per board

Delivery Requirements:

When is it needed by? (Immediate, 30 days, 6 months, etc) ASAP

Describe packaging requirements (i.e., individually/ group packaging). CoC (certificate of conformity) will be required for each board

Where will this item be shipped? Close to Harrisburg PA

Additional Comments:

Is there other information you would like to include? Complete PCB board for use in the PulStar G3 system. Potential for a full box build might be an option as well.

Sense Technology, Inc.
Harrisburg, PA USA
BILL OF MATERIALS

Part no: E081020
Rev: 3.4.2
Title: PulseStar 3
Date: 20170822

Qty	Reference Designators	Value (Ref)	Device(REF)
2	RN1, RN2	100K	RESISTOR
1	RU1	1K 2W	RESISTOR
	RE3, RE5, RE6, RE8, RE9, RE10, RE11, RE12, RE13, RE14,		
16	RE15, RE16, RE17, RE18, RE19, RE20	10K	LFRES
10	RD1, RD2, RD3, RD4, RD5, RD7, RD8, RD10, RD11, RD12	1K	LFRES
3	RB1, RB2, RB3	100	LFRES
8	RF1, RF2, RF3, RF4, RF5, RF6, RF7, RF8	100K	LFRES
4	RC1, RC5, RC7, RC8	300	LFRES
1	RE7	3K	LFRES
3	CU1, CU4, CU5	10uF	CAP
3	CD1, CD2, CD4	0.01uF	LFCAP
1	Above JF1	0.1uF	LFCAP
2	CB1, CB2	22pF	LFCAP
1	CE1	0.056uF	LFCAP
10	CF2, CF4, CF5, CF6, CF7, CF8, CF9, CF10, CF14, CF15	0.1uF	LFCAP
4	CG1, CG2, CG3, CG6	0.22uF	LFCAP
1	CP1	0.1uF 450V	LFCAP
2	CK3, CK4	330uF	LFCAP
3	CM1, CM2, CM3	270uF 400V	LFCAP
1	LA1	330uH	LFIND/CL
1	BA2		DIODE-BR
2	ZA1, ZA4	MM3Z5V1T1G	DIODE-Z
1	DB1	S1J-E3/61T	DIODE-RC
	DA1, DA2, DA5, DA6, DA7, DA8, DA13, DA14, DA20,		
10	DA21	1N4148	DIODE-SG
1	DD1	30BQ060	LFDI-SK
1	DC3	RS3JB	LFDI-RC
2	ZB1, ZB2	MMSZ5245BS-7-F	LFDI-Z
2	ZE1, ZE2	MMSZ5266BT1G	LFDI-Z
2	MA1(1), MA1(2)	1.5SMC300CA	LFDI-TS
1	To the Right, of JD1	SMBJP6KE36CA	LFDI-TS
1	BB1	GBJ1004-F	LFDI-BR
1	MG1	E-562	LFDI-I
1	QI1	MMBT2907ALT1G	TRAN-SGL
2	QA1, QA2	IRG4BC40FPBF	LFTRA-PW
1	UB2	ICL7662	IC
1	UF2	78L05	IC
3	UH1, UH2, UH3	PS2501L-1	IC
1	UA1	PIC18F2550	LFIC

1 UD1	AD5242BRZ10	LFIC
3 UE1, UE2, UE3	OPA2725	LFIC
1 UJ2	MAX5033	LFIC
1 MB1	XT9M	LFXL-OSC
1 XA1	CSE187L	LFTRANSF
1 SB1	G2R-14-DC12	LFRELAY
1 JD1	43045-0412	LFHDR
1 JA3	43045-0212	LFHDR
1 JC1	43045-1012	LFHDR
1 JF1	5558065-1	LFHDR
1 JG1	929974-01-05-RK	LFHDR
1 JH1	22-03-2051	LFHDR
3 ME1, ME2, ME3	SSF-LXH100GD	INDICATR
1 PCB blank	PCB081020	LFPCB
1 MD1	CST-951AP	LFXDUCER
2 MC1, MC2		SUB-ASSY

Changes from Rev 3.4.1 are highlighted yellow

Package(REF)	Description (REF)	MFR1
1206	RES SMD 100K OHM 5% 1/4W 1206	YAGEO
2W	RES 1K OHM 2W 5% AXIAL	PANASONIC
0805	RES SMD 10K OHM 1% 1/8W 0805	YAGEO
0805	RES SMD 1K OHM 1% 1/8W 0805	YAGEO
0805	RES SMD 100 OHM 1% 1/8W 0805	YAGEO
0805	RES SMD 100K OHM 1% 1/8W 0805	YAGEO
0805	RES SMD 300 OHM 1% 1/8W 0805	YAGEO
0805	RES SMD 3K OHM 1% 1/8W 0805	YAGEO
6032 (C)	CAP TANT 10UF 25V 20% 2312	AVX
0603	CAP CER 10000PF 50V X7R 0603	MURATA
0603	CAP CER 0.1UF 50V X7R 0603	AVX
0603	CAP CER 22PF 100V C0G/NP0 0603	MURATA
0603	CAP CER 0.056UF 16V X7R 0603	MURATA
0603	CAP CER 0.1UF 50V Y5V 0603	MURATA
0603	CAP CER 0.22UF 50V Y5V 0603	MURATA
2420	CAP FILM 0.1UF 5% 450VDC 2220	TDK Corporation
RADIAL	CAP ALUM 330UF 20% 50V RADIAL	NICHICON
RADIAL	CAP ALUM 270UF 20% 400V SNAP	NICHICON
NS-SMT	INDUCTOR POWER 330UH	COILCRAFT
SMT	RECT BRIDGE GPP 1A 200V DF-S	DIODES
SOD-323	DIODE ZENER 5.1V 300MW SOD323	ONSEMI
SMA	DIODE GEN PURP 600V 1A DO214AC	VISHAY
SOD-323	DIODE GEN PURP 75V 150MA SOD323	VISHAY
SMC	DIODE SCHOTTKY 60V 3A SMC	VISHAY
SMB	DIODE GEN PURP 600V 3A SMB	DIODES
SOD-323	DIODE ZENER 15V 200MW SOD323	DIODES
SOD-123	DIODE ZENER 68V 500MW SOD123	ONSEMI
SMC	TVS DIODE 256VWM 414VC SMD	LITTLE FUSE
SMB	TVS DIODE 30.8VWM 49.9VC SMBJ	MCC
THT	RECT BRIDGE GPP 400V 10A GBJ	DIODES
THT	DIODE CURRENT REGULATING 5.6MA 100V	SEMITECU
SOT-23	TRANS PNP 60V 0.6A SOT23	ONSEMI
TO-220	IGBT 600V 49A 160W TO220AB	INT'LREC
SOIC-8	IC REG SWTCHD CAP INV 8SOIC	MAXIM
SOIC-8	IC REG LINEAR 5V 100MA 8SOIC	ONSEMI
SPL-SMT	OPTOISOLATOR 5KV TRANS 4SMD	CEL
SOIC-28	IC MCU 8BIT 32KB FLASH 28SOIC	MICROCHI

SOIC-16	IC POT DGTL DUAL 256POS 16SOIC	AD
SOIC-8	IC OPAMP GP 20MHZ RRO 8SOIC	TI
SOIC-8	IC REG BUCK 12V 1A 8SOIC	MAXIM
SMT	CRYSTAL 20MHZ 20PF HC-49	VISHAY
CURRENT	TRANSF LOW FREQ CRNT SENSE 1:500	TRIAD
THT	RELAY GEN PURPOSE SPDT 8A 12V	OMRON
THT	CONN HEADER 4POS 3MM VERT TIN	MOLEX
THT	CONN HEADER 2POS 3MM VERT TIN	MOLEX
THT	CONN HEADER 10POS 3MM VERT TIN	MOLEX
THT	CONN MOD JACK 10P10C R/A UNSHLD	TYCO
THT	CONN RECEPT .100 SNGL STR 5POS	3M
THT	CONN HEADER 5POS .100 VERT TIN	MOLEX
LED	LED 5MM RA GREEN DIFF PC MOUNT	LUMEX
4LAYER	BLANK PCB PULSTAR 3, BLUE SOLDER MASK	ANY
SUND-GEN	AUDIO MAGNETIC XDRC 4-6V TH	CUIINC
MECH	MICS HEATSINK ASSY TO-220 13KW	SENSE TECH.

MFR1 PN	MFR2	MFR2 PN	MFR3
RC1206JR-07100KL			
ERG-2SJ102			
RC0805FR-0710KL			
RC0805FR-071KL			
RC0805FR-07100RL			
RC0805FR-07100KL			
RC0805FR-07300RL			
RC0805FR-073KL			
F931E106MCC			
GRM188R71H103KA01D			
06035C104KAT2A	KEMET	C0603C104K5RACTU	MURATA
GRM1885C2A220JA01D			
GRM188R71C563KA01D			
GRM188F51H104ZA01D	MURATA	GRM188R71H104KA93D	KEMET
GRM188F51H224ZA01D	YAGEO	CC0603ZRY5V9BB224	SAMSUNG
C5750C0G2W104J280KA			
UHE1H331MPD			
LGU2G271MELC			
DO5022P-334MLB	COILCRAFT	DO5022P-334MLD	
DF02S-T	FAIRCHILD	DF02S	
MM3Z5V1T1G			
S1J-E3/61T			
1N4148WS-E3-08			
30BQ060TRPBF	ONSEMI	MBRS360T3G	
RS3JB-13-F			
MMSZ5245BS-7-F			
MMSZ5266BT1G			
1.5SMC300CA			
SMBJP6KE36CA			
GBJ1004-F			
E-562			
MMBT2907ALT1G			
IRG4BC40FPBF			
ICL7662CBA+	MAXIM	ICL7662CBA+T	MAXIM
MC78L05ACDR2G	ONSEMI	MC78L05ACDG	
PS2501L-1-F3	CEL	PS2501L-1-A	
PIC18F2550-I/SO			

AD5242BRZ10-REEL7
OPA2725AIDR
MAX5035CUSA+T
XT9M20HNA20M
CSE187L
G2R-14-DC12
43045-0412
43045-0212
43045-1012
5558065-1
929974-01-05-RK
22-03-2051
SSF-LXH100GD
PCB081020 Rev 3
CST-951AP
E080614

AD
TI
MAXIM
VISHAY

AD5242BRZ10
OPA2725AID
MAX5035CUSA+
XT9M20ANA20M

MFR3 PN

GRM188R71H104KA93D

C0603C104K5RACTU
CL10F224ZB8NNNC

ICL7662EBA+

ATTENTION
FOR SENSITIVE EQUIPMENT
ELECTROSTATIC
SENSITIVE DEVICE

STL 9C4P 081020 REV.3.0

