

Shiro



• Service Manual •

SD7100

Digital Enhanced Cordless Communication

Contents

What the symbols mean	2
Keypad description	3
Setting up your telephone	4
Installation	6
Important safety information	8
Cleaning and care	9
Troubleshooting	10
Spare Parts Module	12
Circuit Diagram & Bill of Material (Confidential)	13
Technical details	14

What the symbols mean



Battery charge level

Whenever this shows 'nearly empty' (), put the handset on the base unit to charge the batteries. While the battery is being charged, the level shown will keep changing.



Outside call

You are connected to an outside call.



Intercom call

You are connected to an intercom call.



Phone book

Show the names and numbers of stored record.



Mute

Your handset's microphone is muted.



Up and down arrows

To browse through the programming menu for more options.



Signal level

Shows the strength of the signal between the handset and base unit, and flashes when you are out of range of the base unit, when the level is low, or the symbol is flashing, move closer to base unit.



Missed call

You have unread missed call.

Keypad description

CALL button

Press to begin, answer and end a telephone call.

MENU button

Press to enter menu mode and enter sub-menu. With the key " * " to lock or unlock the keypad.

UP and DOWN button

In standby mode, press to show phonebook list
Press during programming to move through the menu.
Press during a call to change the volume in the earpiece.

Recall button

You need the Recall function if your phone is connected to a PABX, or if you use Select Services.

IN USE light

The IN USE light comes on when you have a connection to the telephone line.

PHONEBOOK button

In standby mode, press to enter phonebook menu
Press to confirm selection.
You need the button if your phone is connected to a PABX

CLEAR button

Press and hold (2-3 seconds) to switch the handset on and off
Press during programming to go back to the previous option, or to clear digits one by one from the display.
Press during a call to mute the microphone

INT button

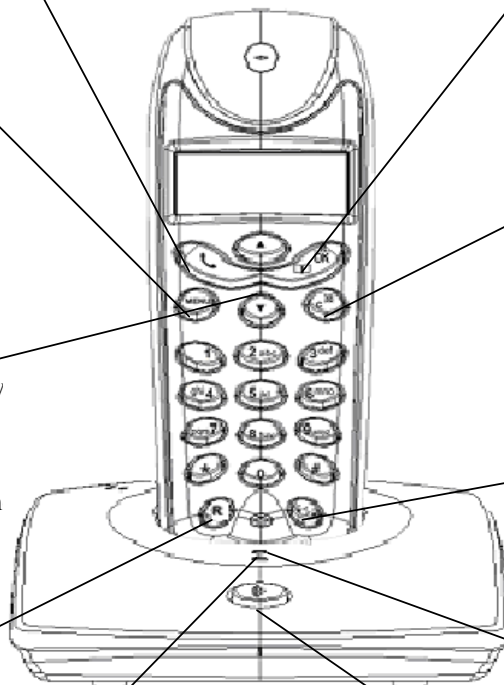
Press to make an intercom call (if you have more than one handset)

CHARGE light

The CHARGE light comes on when the handset's batteries are being charged.

HANDSET LOCATOR button

Press this to make the handset ring, if you cannot remember where you put it.
Press it again to stop the handset ringing.



Before you can use the handset to make calls for the first time, you will need to fit and fully charge the batteries for 15 hours.

Setting up your telephone

Connection and conditions for use

You can connect your SD7100 to a direct exchange line (DEL), a line connected to a local exchange, with its own phone number; to an extension socket connected to a DEL; or to an extension on an approved compatible PBX. Do not connect the SD7100 as an extension to a payphone.

How many phones can you connect?

The ringer equivalence numbers (RENs) of all instruments (phones, fax machines, etc.) connected to an exchange line must not add up to more than 4, otherwise, one or more of them may not ring and/or answer calls correctly. The SD7100 has a REN of 1, and most other telephones have a REN of 1 unless marked otherwise.

Radio signals between handset and base unit

To use your handset and base unit together, you must be able to establish a radio link between them. Be aware that:

- Sitting the base unit as high as possible will give better results, in a two-storey house, the best position may be on the first-floor landing.
- Any large metal object, like a fridge, a mirror or a filing cabinet, between the handset and base unit may block the radio signal.
- Other solid structures, like walls, may reduce the signal strength.

Choosing a site for the base unit

The base unit should be placed on a level surface, in a position where:

- The mains adapter plug will reach a 230-V AC switched mains supply socket; never try to lengthen the mains power cable.
- The telephone cable will reach your telephone line socket or extension socket.
- It is not close to another telephone, this can cause radio interference.
- It is not close to a sink, bath or shower, or anywhere else where it might get wet.

It is not close to other electrical equipment, fridges, washing machines, microwave ovens, TVs, fluorescent lights, etc

What's in this pack

Please check the box contents for completeness.
If any parts are missing, return complete box to
your supplier.

- The cordless handset
- The base unit
- Rechargeable AAA batteries
- A telephone line cable (different from country to country)
- A mains power lead and adaptor (different from country to country)
- Charger pods (not available for single handset)
- Service Manual

Note: Keep your proof of purchase to support any
guarantee claim

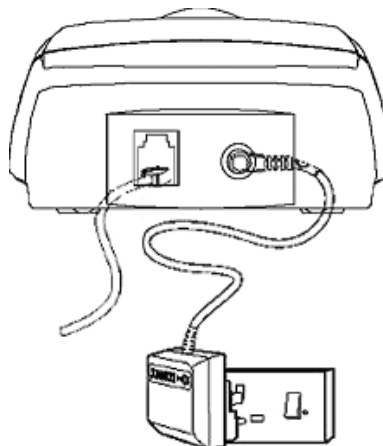
Installation

1. Choose a suitable site for the handset unit

Make sure it is not near to another telephone, nor to other electrical equipment.

2. Plug the mains power lead into the rear of the charger pod

3. Plug the mains adapter into a 230 V AC, 50 Hz mains socket, with the switch on the socket set to OFF

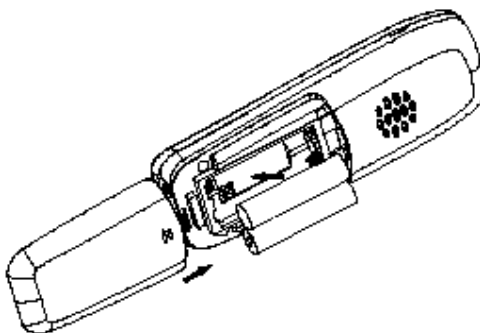


Note: The illustration of adaptor may vary from country to country.

4. Switch on mains power at the socket

5. Fit the battery in the handset(s)

Insert the battery pack as shown .Fit the battery compartment cover, Sliding it until it clicks firmly into Position.



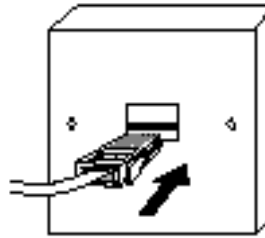
1. Connect the base unit to the telephone line

Switch off power at the mains socket.

Insert the telephone line plug into the socket.

Switch mains power back on

Make sure the mains socket is switched on if you want to use the phone---it will not work without electrical power.



Use the plug to raise the shutter before pushing it into the socket

Note:

1. *The charge pod does not have a connection to the telephone line.*
2. *The illustration of telephone's socket may vary from country to country.*

Important safety information

This equipment is not designed for making emergency calls in the event of a power failure. Alternative arrangements should be made for access to emergency services.

(This means that you should also have a basic phone that does not need mains power, connected to your line so that you can make calls during a power failure)

People with a heart pacemaker should consult their doctor before using the telephone.

If you wear a hearing aid, you should note SD7100 works by transmitting radio waves between base and handset that may cause a humming noise.

1. **DO NOT** clean any part of your phone with benzene, thinner or other solvent chemicals, which may cause permanent damage to your phone. This damage is not covered by the Guarantee. When necessary, clean it with a damp cloth.

Cleaning it with a wet cloth may give you an electric shock.

2. **DO NOT** use this equipment in places where volatile or explosive materials may be present.

3. **DO NOT** let the handset unit get wet. Electrical equipment can cause serious injury if used while you are wet or standing in water. NEVER use your phone during a thunderstorm. Unplug the handset unit from the telephone line and the mains socket when there are storms in your area. Damage caused by lightning is not covered by the Guarantee.

4. The SD7100 will produce a certain amount of heat during operation. For this reason it is recommended that this equipment is **NOT** placed in direct contact with antique, veneered or delicate furniture surfaces.

5. **DO NOT** dispose batteries with normal household waste.

6. The SD7100 DECT phone emits radio signals which could interfere with other electronic equipment, computers, radio, TV set, clock radio alarms, etc.

A distance of at least one meter should be maintained between SD7100 handset station and other equipment. This will minimize the risk of such interference.

7. When you do not need to carry your handsets around, leave it on the charger pod, to keep the batteries charged.

8. If you hear a warning tone as move around during a call, and/ or the sound in the earpiece becomes faint or distorted; you may be going out of range of the base unit.

Move nearer to the base unit within 20 seconds, until the tone stops. Otherwise your call may be cut off.

! NOTE: Dispose of used batteries safely, never burn them, or put them where they could get punctured.

Cleaning and care

Cleaning

Simply clean the handset and base with a damp (not wet) cloth, or an anti-static wipe. Never use household polish as this will damage the product. Never use a dry cloth as this may cause a static shock.

Environmental

- Do not expose to direct sunlight.
- The handset may become warm when the batteries are being recharged. This is normal. We recommend that you do not place the product on antique/veneered wood to avoid damage.
- Do not stand your product on carpets or other surfaces, which generate fibres or place it in locations preventing the free flow of air over its surfaces.
- Do not submerge any part of your product in water and do not use it in damp or humid conditions, such as bathrooms.
- Do not expose your product to fire, explosive or other hazardous conditions.
- There is a slight chance your phone could be damaged by an electrical storm. We recommend that you unplug the power and telephone line cord during an electrical storm.

Switchboard compatibility

This telephone may be connected to most types of switchboard, however in the event of any difficulties, consult your switchboard Service Provider.

Troubleshooting

Always check first that:

- You have followed the steps listed on pages to install and set up your SD7100.
- All connects are firmly inserted in their sockets.
- Mains power is switched on at the socket.
- The handset's batteries are correctly and securely installed, and are not run down.

If you experience difficulties with the working of your SD7100, refer to the advice given below.

I cannot make or answer calls.

Check that the handset unit's mains power adapter is plugged in and power is switched on. The handset unit needs mains power for normal operation of the phone-not just charging the batteries.

Make sure you are using the telephone line cable that was supplied with your SD7100. Other telephone line cables might not work.

Check the battery level symbol on the display. If it is low, replace the handset on the base unit or charger pod to recharge the batteries.

Switch off power at the mains socket, wait for a few seconds and then switch back on. This may solve the problem.

If you still can't make calls, try re-registering the handset.

When I press keys on the handset, nothing happens.

Make sure the batteries are fitted in your handset. If the battery level symbol on the display shows "low", recharge the batteries.

Check whether there's a key symbol on the display. If so, the keypad is locked. Turn to the Service Manual to find out how to unlock it.

When I press keys on the handset, digits appear on the display, but I can't make an outside call.

Call barring may have been set, see the Service Manual for more information.

Try moving the handset closer to the base unit.

Try a different position for the base unit-perhaps higher, or further from other electrical equipment.

The phone does not ring

Check that the base unit's mains power adapter is plugged in and power is switched on. The base unit needs mains power for normal operation of the phone-not just charging the batteries.

Make sure you are using the telephone line cable that was supplied with your SD7100. Other telephone line cables might not work.

Check that you have set the ringer volume to off. See the Service Manual for more information.

Check that the total REN value of all equipment connected to your telephone line is no more than 4. Disconnect one or more telephones and see whether that helps.

When I press the CALL button, I hear a loud noise.

The strange noise is caused by interference. Disconnect the mains power lead from the back of the base unit, and then wait for 30 seconds before reconnecting it.

There is 'beep' sound while I am on a call.

You may be going out of range of the base unit. Move closer, or your call may be cut off.

Check the Battery Level symbol on the display. If it is low, recharge the batteries.

The Caller Display feature isn't working.

You need to subscribe to the Caller Display feature from your service provider.

The caller may have withheld their number, or they may be calling from a network that does not transmit the Caller ID (for example, it may be an international call).

The handset's battery is running low within an hour or two.

Before you used the handset for the first time, you should have left it on the base unit for up to 15 hours to charge the battery fully.

You may need to replace the battery.

I cannot transfer a call.

Make sure the other handset is within range of the base unit, and is not busy on a call.

Make sure you are keying in the correct number for the other handset.

No display on LCD screen.

Make sure the battery have power.

I cannot register handset to base

Make sure the number of handset registered to base is not more than 4.

Check that the base unit is not near other electrical equipment, such as TV or computer

Spare Parts Module

The following spare parts are provided for replacement in the event of product issue. The parts & accessories' prices could be different depending on the country requirement.



Handset



Base



9V 300mA
Power Adapter



RJ11 Telephone Cable



2x 550mAh Ni-
MH Battery



User Manual

Circuit Diagram & Bill of Material (Confidential)

Circuit diagram & BOM is only for internal use by service technicians of authorized service centers and service dealers. Please do not distribute the circuit diagram & BOM without seeking our approval.

Please refer to Appendix A for Handset Circuit Diagram.

Please refer to Appendix B for Base Circuit Diagram.

Please refer to Appendix C for Handset Bill of Material.

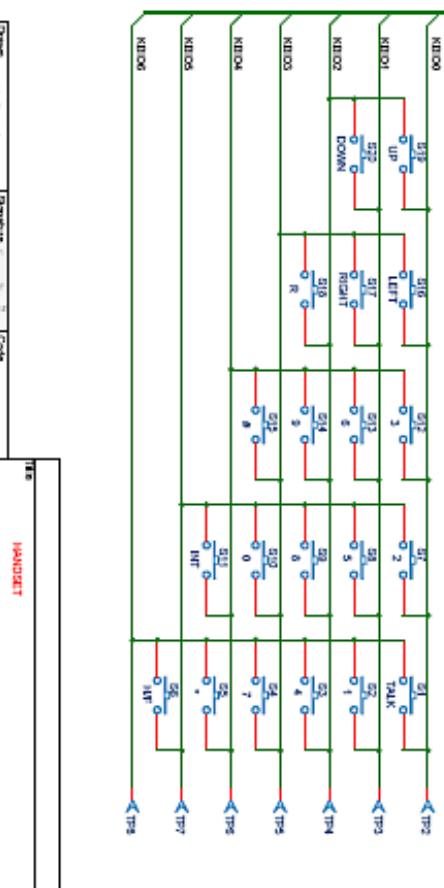
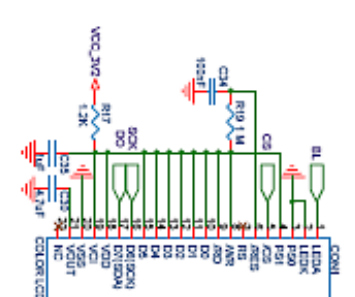
Please refer to Appendix D for Base Bill of Material.

Technical details

Full DECT GAP Compatible system

Standard	Digital Enhanced Cordless Telecommunications (DECT)
Frequency range	1.88 to 1.9 GHz
Channel bandwidth	1.728 MHz
Modulation	GMSK
Operating range	Up to 300 m outdoors; Up to 50 m indoors
Operating time	Standby time: 100 hours Talking time: 8 hours
Temperature range	Operating 0 ⁰ C to 40 ⁰ C Storage -20 ⁰ C to 60 ⁰ C
Electrical power	Handset---one 1.2 x 2 V 550 mAH NiMH, rechargeable battery cell Base unit---input 230 V AC, 50 Hz; output AC 9 V, 300 mA.
PABX compatibility	Timed break recall: 300 ms for short flash; 600 ms for long flash Pause length: 3 seconds. Signaling type: DTMF (dual-tone multifrequency) Pulse dialing

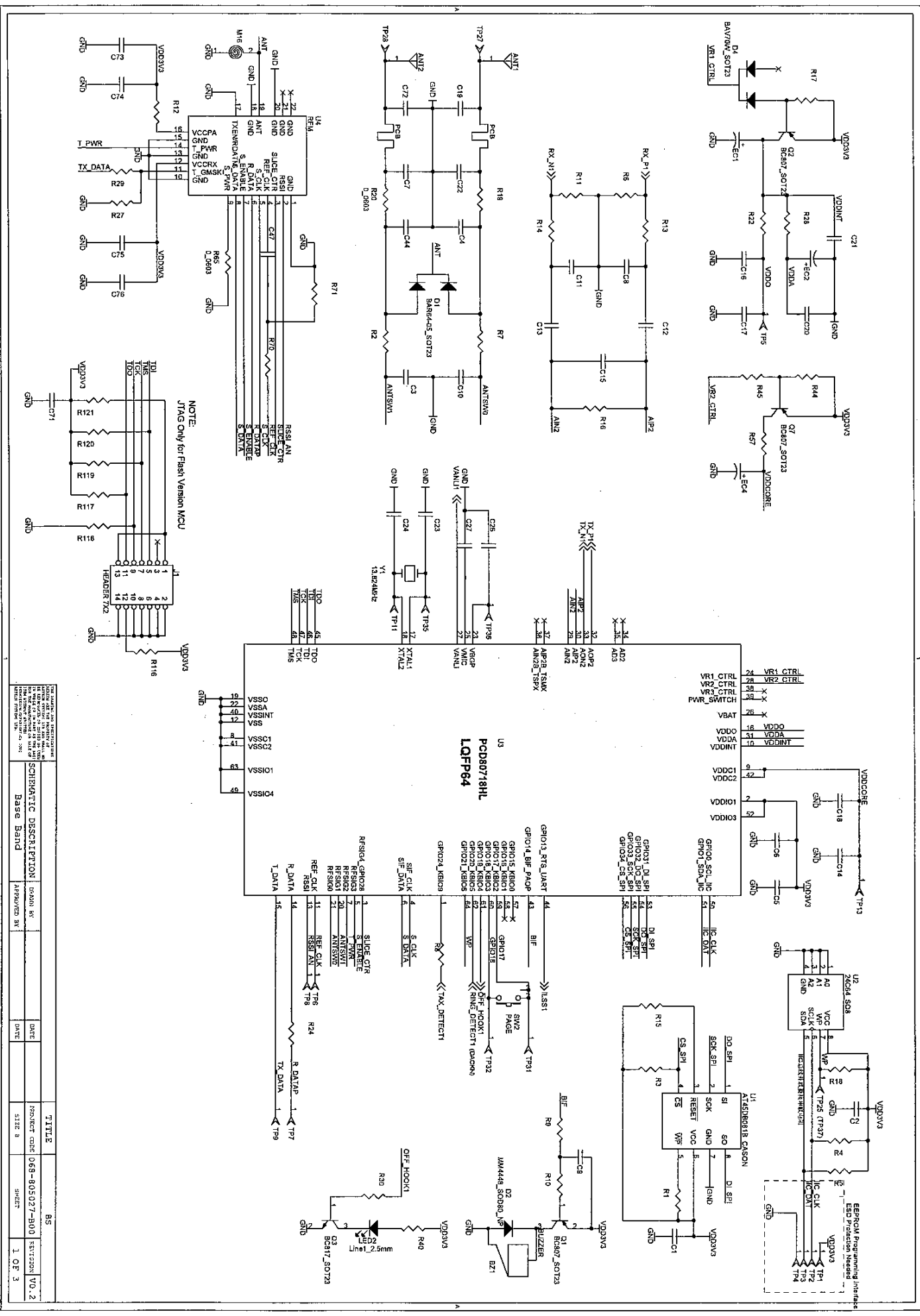
APPENDIX A



Name		Li Zeng Chang	Signature	Code	000-80007-1125
Approved		Low Nis Chang	Signature		

Name		PANDELT	
DOB	12/28/1985	Location Number	10000
DOB	12/28/1985	DOB	12/28/1985

APPENDIX B



SCHEMATIC DESCRIPTION				TITLE	
Base Band	APPROVED BY	DATE	REJECT CODE	068-805027-800	REVIZION 10.2
			SHEET	1 OF 3	

APPENDIX C

Project Code :068-805027-H00
Revision No : 1.0
Change Note (CN) : 0

R & D DEPARTMENT
BILL OF MATERIALS FOR SD7100

S/N (SMD / MI) DESCRIPTION NEW PART NO. PACKAGE PCB FOOTPRINT QTY LOCATION REMARKS

CAPACITORS

1	SMD	MLCC Y5V 0.1UF 16V +80-20% 0402	010-3310416-Z01	0402	0402	16	C2 C9 C10 C13 C14 C16 C17 C24 C34 C39		
2							C42 C43 C44 C49 C52 C50		
3	SMD	MLCC X7R 68NF 10V 10% 0402	010-3168310-K01	0402	0402	1	C48		
4	SMD	MLCC X7R 10NF 50V 10% 0402	010-3110350-K01	0402	0402	2	C46 C47		
5	SMD	MLCC NPO 40PF 50V 5% 0402	010-3010050-J01	0402	0402	2	C18 C31		
6	SMD	MLCC NPO 20PF 50V 5% 0402	010-3020050-J01	0402	0402	2	C19 C23		
7	SMD	MLCC NPO 40PF 50V 5% 0402	010-3022050-J01	0402	0402	1	C36		
8	SMD	MLCC Y5V 220NF 50V +20/-80% 0402	010-3322450-Z01	0402	0402	1	C21		
9	SMD	MLCC Y5V 1UF 10V +80-20% 0603	010-3310510-Z02	0603	0603	3	C11 C22 C35		
10	SMD	MLCC X5R 2.2UF 6.3V 10% 0805	010-3522562-K03	0805	0805	2	C4 C25		
11	SMD	MLCC Y5V 4.0UF 16V 10% 0805	010-3347516-K03	0805	0805	1	C30		
12	SMD	MLCC NPO 5PF 50V 0.5PF 0402	010-3007050-D01	0402	0402	4	C7 C8 C12 C20		
13	MI	ELE 220UF 6.3V 20% 6.3X5 2.5MM	010-210707-042	RADIAL - 2.5mm	RADIAL - 2.5mm	2	C5 C54		
14	MI	ELE 100UF 6.3V 20% 6.3X7 2.5MM	010-222707-042	RADIAL - 2.5mm	RADIAL - 2.5mm	1	C26		
15	MI	ELE 67UF 16V 20% 5X7 2MM	010-247616-512	RADIAL - 2.0mm	RADIAL - 2.0mm	3	C1 C3 C51		

RESISTORS

16	SMD	RES CF 10K OHM 1/16W 5% 0402	011-010037-041	0402	0402	6	R6 R46 R49 R50 R51 R52		
17		RES CF 15K OHM 1/16W 1% 0402	011-015037-041	0402	0402	1	R20		
18	SMD	RES CF 6.8K OHM 1/16W 5% 0402	011-033027-045	0402	0402	1	R31		
19	SMD	RES CF 4.7K OHM 1/16W 5% 0402	011-047027-045	0402	0402	3	R4 R5 R58		
20	SMD	RES CF 6.8K OHM 1/16W 5% 0402	011-068027-045	0402	0402	1	R54		
21	SMD	RES CF 0 OHM 1/16W 0402	011-000007-045	0402	0402	8	R9 R13 R42 R43 R60 R61 C15 C29		
22	SMD	RES CF 0 OHM 1/16W 0603	011-000000-065	0603	0603	1	R57		
23	SMD	RES CF 1M OHM 1/16W 5% 0402	011-010057-045	0402	0402	1	R19		
24	SMD	RES CF 10 OHM 1/10W 1% 0603	011-001000-061	0603	0603	3	R16 R55 R56		
25	SMD	RES CF 10 OHM 1/16W 5% 0402	011-010007-045	0402	0402	1	R8		
26	SMD	RES CF 100K OHM 1/16W 5% 0402	011-010047-045	0402	0402	5	R11 R21 R30 R40 R53		
27	SMD	RES CF 33 OHM 1/10W 5% 0402	011-033000-045	0402	0402	2	R36 R47		
28	SMD	RES CF 140 OHM 1/10W 1% 0805	011-014010-081	0805	0805	2	R28 R29		
29	SMD	RES CF 15 OHM 1/8W 5% 0805	011-015008-085	0805	0805	3	R25 R26 R27		
30	SMD	RES CF 1K OHM 1/16W 5% 0402	011-010027-045	0402	0402	12	R1 R12 R14 R22 R24 R32 R33 R34 R35 R37		
							R38 R39		
31	SMD	RES CF 1.2K OHM 1/16W 5% 0402	011-012027-045	0402	0402	1	R17		
32	SMD	RES CF 33K OHM 1/16W 5% 0402	011-033037-045	0402	0402	1	R44		
33	SMD	RES CF 470 OHM 1/16W 5% 0402	011-047017-045	0402	Page 10 of 12	1	R15		

R & D DEPARTMENT
BILL OF MATERIALS FOR SD7 100

Project Code : 068-805027-H00
Revision No : 1.0
Change Note (CN) : 0

S/N (SMD / MI)	DESCRIPTION	NEW PART NO.	PACKAGE	PCB FOOTPRINT	QTY	LOCATION	REMARKS
34	SMD RES CF 47K OHM 1/16W 5% 0402	011-047047-045	0402	0402	1	R18	
35	SMD RES CF 47K OHM 1/16W 5% 0402	011-047037-045	0402	0402	3	R2 R3 R41	
DISCRETE COMPONENT							
36	SMD DIODE TVS VCO60303A100 SMD	013-213253-110	0603	0603	1	R7	
37	SMD TRANS NMOSFET BSH103 SOT23	013-104176-030	SOT23	SOT23	1	Q5	
38	SMD TRANS PNP BC807 SOT23	013-100013-030	SOT23	SOT23	4	Q2 Q4 Q6 Q7	
39	SMD TRANS NPN BC817 SOT23	013-101014-030	SOT23	SOT23	2	Q1 Q3	
40	SMD DIODE HI-SPEED SWITCHING BAS16 SOT23	013-201001-030	SOT23	SOT23	1	D1	
41	SMD DIODE SHTKY ON-SEMI MBR0530T1 SOD123	013-205251-220	SOD123	SOD123	1	D3	
42	SMD DIODE S/SIG 1N4148WS SOD323	013-201224-200	SOD323	SOD323	1	D2	
43	SMD IND 22UH 20% 1.23A SMD	012-022012M-000	SMD	SMD	1	L2	
44	SMD DIODE ZR TZMC3V9-GS08 SOD80	013-200273-260	SOD80	SOD80	1	D17	
45	SMD DIODE SW BAV70 SOT23	013-209054-030	SOT23	SOT23	1	D14	
46	MI XTAL 13.824MHz 20PPM 22PF LP	018-1130222-030	HC49/S (LP)	HC49/S (LP)	1	Y1	
47	MI COND MICROPHONE KT6027(C)-58-POF	912-A15001-A00	PTH	PTH	1	M1	
SOCKET							
48	SMD CONN 22P R/A P=0.5MM TOP	015-000122-031	SMD	SMD	1	CON1	
IC							
49	SMD F/ROM AT25F512N-10SI SOIC8	019-4051225-995	SOIC8	SOIC8	1	IC4	
50	SMD IC PWR AMP MC34119 UNISONIC SOP8	021-0280105-040	SOP8	SOP8	1	IC3	
51	SMD EEPROM 24C32 SOIC8	019-9204015-005	SOIC8	SOIC8	1	IC2	
52	SMD IC BB CONTR PCD80718HL PHILIPS LQFP64	021-0380118-210	LQFP64	LQFP64	1	IC1	
MISC COMPONENT / ITEMS							
53	SMD PCB 6.535"x5.138"x0.039" L1100 H/S 2L 4 IN-1	050-818058-203			1	4-IN-1 PANEL	
54	SMD ORCHID RF MODULE PCBA	068-805008-000	MODULE	MODULE	1	CON3	
TOTAL NUMBER OF COMPONENTS					121		

Engineer : Liu Zong Chang
Date : 27/Sep/04

Checked By :
Date :

Approved By : Low Wei chong
Date :

Procurement
Date :

APPENDIX D

R & D DEPARTMENT
BILL OF MATERIALS FOR SD7 100

PROJECT CODE : 068-406027-B00
REVISION : 0.2
CHANGE NOTE (CN) : 0

S/N	LSMD / ML	DESCRIPTION	NEW PART NO.	PACKAGE	PCB FOOTPRINT	QTY	LOCATION
CAPACITORS							
1	SMD	MLCC NPO 22PF 50V 5% 0603	010-310050-060	0603	0603	8	C3,C10,C29,C33,C34,C37,C38,C51
2	SMD	MLCC NPO 22PF 50V 5% 0603	010-322050-575	dec3 (code / npo type)	0603	2	C23,C34
3	SMD	MLCC NPO 10PF 50V 5% 0603	010-333050-065	0603	0603	1	C47
4	SMD	MLCC 1200PF 50V 10% 0603	010-322250-060	0603	0603	1	C42
5	SMD	MLCC X7R 0.01UF 16V 10% 0603	010-310316-060	0603	0603	5	C8,C9,C11,C41,C43
6	SMD	MLCC 0.1UF 25V +80-20% 0603	010-310425-068	0603	0603	24	C1,C2,C5,C6,C12,C13,C14,C17,C18,C20
							C21,C25,C28,C27,C26,C32,C36,C39,C50,C55
							C57,C59,C68,C71
7	SMD	MLCC Y5V 1UF 10V +80-20% 0603	010-3310510-202	0603	0603 0605	1	C16
8	SMD	MLCC X7R 2.2UF 16V 20% 1206	010-3122516-104	1206	1206	2	C30,C40
9	MI	ELE 10UF 16V 20% 4X7 2.5MM	010-210616-042	RADIAL - 2.5MM	RADIAL - 2.5MM	1	EC5
10	MI	ELE STD 47UF 16V 20% 4X7 2.5MM	010-2047016-140	RADIAL - 2.5MM	RADIAL - 2.5MM	4	EC1,EC2,EC4,EC8
11	MI	ELE 47UF 16V 20% 8X12 3.5MM	010-247716-032	RADIAL - 3.5mm	RADIAL - 3.5mm	1	EC7
12	MI	FILM NPMK5 0.01UF 400V 20% 5MMX2.5X6.5X7.2	010-8710340-14-1	RADIAL - 5mm	RADIAL - 5mm	2	C68,C70
13	MI	FILM NPMK5 0.022UF 250V 20% 5MM 3.5X8X7.2	010-8722386-14-1	RADIAL - 5mm	RADIAL - 5mm	2	C52,C54

RESISTORS							
14	SMD	RES CF 0 OHM 1/4W 1210	011-000004-105	1210	1210	1	R122
15	SMD	RES CF 0 OHM 1/16W 0603	011-000003-065	0603	0603	8	R8,R12,R19,R20,R65,R90,R94,R102,R105
16	SMD	RES CF 1 OHM 1/16W 5% 0603	011-001007-065	0603	0603	1	R57
17	SMD	RES CF 12 OHM 1/8W 5% 1206	011-010003-065	0603	0603	1	R28
18	SMD	RES CF 12 OHM 1/8W 5% 1206	011-012008-125	1206	1206	1	R112
19	SMD	RES CF 14 OHM 1/16W 1% 0603	011-014000-061	0603	0603	1	R63
20	SMD	RES CF 150 OHM 1/4W 5% 1210	011-016007-065	0603	0603	1	R63
21	SMD	RES CF 33 OHM 1/16W 5% 0603	011-033000-065	0603	0603	1	R121
22	SMD	RES CF 120 OHM 1/8W 5% 1206	011-012018-125	1206	1206	2	R54,R55
23	SMD	RES CF 150 OHM 1/4W 5% 1210	011-015014-105	1210	1210	2	R113,R114
24	SMD	RES CF 330 OHM 1/16W 5% 0603	011-033017-065	0603	0603	2	R22,R40
25	SMD	RES CF 560 OHM 1/16W 5% 0603	011-056010-065	0603	0603	2	R36,R46
26	SMD	RES CF 1K OHM 1/16W 5% 0603	011-010020-065	0603	0603	8	R2,R7,R24,R44,R46,R71,R94,R100
27	SMD	RES CF 1.2K OHM 1/16W 5% 0603	011-012020-065	0603	0603	1	R70
28	SMD	RES CF 1.5K OHM 1/16W 5% 0603	011-015027-065	0603	0603	1	R99
29	SMD	RES CF 1.8K OHM 1/16W 5% 0603	011-018027-065	0603	0603	1	R48
30	SMD	RES CF 3.3K OHM 1/16W 5% 0603	011-027027-065	0603	0603	1	R61
31	SMD	RES CF 3.3K OHM 1/16W 5% 0603	011-033027-065	0603	0603	2	R9,R47
32	SMD	RES CF 3.3K OHM 1/16W 5% 0603	011-039027-065	0603	0603	2	R29,R41
33	SMD	RES CF 4.7K OHM 1/16W 5% 0603	011-047020-065	0603	0603	5	R4,R5,R13,R14,R27,R43
34	SMD	RES CF 6.8K OHM 1/16W 5% 0603	011-068027-065	0603	0603	5	R6,R11,R39,R42,R52
35	SMD	RES CF 10K OHM 1/16W 5% 0603	011-010030-065	0603	0603	24	R1,R3,R10,R15,R17,R18,R30,R34,R36,R39
							R61,R74,R75,R76,R77,R82,R83,R86,R104,R116
							R117,R18,R75,R119,R120
36	SMD	RES CF 15K OHM 1/16W 5% 0603	011-015030-065	0603	0603	3	R50,R58,R60
37	SMD	RES CF 33K OHM 1/16W 5% 0603	011-033030-065	0603	0603	1	R33
38	SMD	RES CF 11K OHM 1/16W 5% 0603	011-010040-065	0603	0603	3	R37,R62,R108
39	SMD	RES CF 11K OHM 1/16W 5% 0603	011-010050-065	0603	0603	1	R67
40	MI	RES CF 680 OHM 2W 5% AXIAL	011-068016-005	AXIAL	AXIAL	1	R79

R & D DEPARTMENT BILL OF MATERIALS FOR SD7100

PROJECT CODE : 068-805027-B00
REVISION : 0.2
CHANGE NOTE (CN) : 0

S/N	LSMD / ML	DESCRIPTION	NEW PART NO.	PACKAGE	PCB FOOTPRINT	QTY	LOCATION
DIODES/TRANSISTORS							
41	SMD	TRANS PNP BC807 SOT23	013-100013-030	SOT23	SOT23	6	Q1,Q2,Q6,Q7,Q10,Q11
42	SMD	TRANS NPN BC817 SOT23	013-101014-030	SOT23	SOT23	5	Q3,Q4,Q8,Q9,Q12
43	SMD	TRANS NPN MM817A42 SOT23	013-101105-030	SOT23	SOT23	1	Q15
44	SMD	TRANS PNP CMPTA92 SOT23	013-100019-030	SOT23	SOT23	2	Q17,Q19
45	ML	TRANS NPN MPSA92 TO92	013-100177-060	TO92	TO92	1	Q5
46	SMD	DIODE SW BA170 SOT23	013-208054-030	SOT23	SOT23	1	D4
47	SMD	DIODE SILICON PIN BAR64-J05 SOT23	013-216252-030	SOT23	SOT23	1	D1
48	SMD	DIODE SIARR FDL4448 MELF	013-201254-080	SOD80	SOD80	1	D3
49	SMD	DIODE ZFR BZX84C3V3 SOT23	013-200055-930	SOT23	SOT23	1	D6

ICS							
52	SMD	FLASH AT45DB081B-ON1 ATMEL	019-2801018-009	CASON	CASON	1	U1
53	SMD	EEPROM 24LC04 MICROCHIP SOIC8	019-007165-005	SOIC8	SOIC8	1	U2
54	ML	IC LM317 REG TO220	021-028406-930	TO220	TO220	1	U6
55	SMD	IC 88 CONTR PCD80718HL PHILIPS LQFP64	021-0380118-210	LQFP64	LQFP64	1	U3

SOCKET							
56	ML	JACK DC PWR SCDD14	016-071009-030	PTH	PTH	1	J2
57	ML	JACK TEL 6P4C CHUNG YI	016-120055-004			1	J3
58	ML	Metal Dome Dia 5 X 0.25 H	061-0111680-000			1	SW2

MISC COMPONENT / ITEMS							
59	SMD	PCB 7.087"X6.661"X0.047" L7100 B/S 2L 4-IN-1	050-818055-202			1	4-IN-1 PANEL
60	SMD	M1100 RF MODULE PCB A	068-806008-000	SMD	SMD	1	U4
61	ML	LED YEL/GRN RND/3MM L-314GD	024-021370-113	RADIAL - 2.5mm	RADIAL - 2.5mm	1	LED2
62	ML	LED RED-D RND/3MM L-H2040P1	024-003010-114	RADIAL - 2.5mm	RADIAL - 2.5mm	1	LED1
63	ML	IND 1000UH 5% 50MA RADIAL	012-0102501-510	RADIAL - 3.5mm	RADIAL - 3.5mm	2	L31,L4
64	ML	XTAL 13.824 MHz 20PFM 22PF LP	018-1130222-030	HC49S (LP)	HC49S (LP)	1	Y1
65	ML	CER Y5P 1000PF 250V 10% 7.5MM	010-1610226-K43	RADIAL - 7.5mm	RADIAL - 7.5mm	1	RV4
66	ML	RES VARST 178V/RMS	011-601812-050	RADIAL - 5mm	RADIAL - 5mm	1	RV5
67	SMD	DIODE TVS VC120614A300 SMD	013-213257-110	1206 (SMD)	1206	1	RV3
68	SMD	DIODE TVS VC080503A100 AVX SMD	013-213256-110	0805 (SMD)	0805	2	RV1,RV2
TOTAL NUMBER OF COMPONENTS						185	

Engineer : Bao Lei Checked By : Approved By : Lou Wei Cheng Procurement :
Date : Date : Date : Date :
Schematics : SD7100 B/S (068-805027-B00) REV 0.2