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# 15

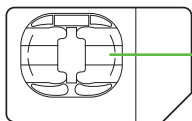
## Appendix



## About USIM Card

USIM Card is an IC card containing customer and authentication information, including the handset number. USIM Card must be inserted to use this handset. Save Phone Book entries on USIM Card Phone Book to use them on other SoftBank handsets. Depending on the USIM Card in use, some entry items may not be supported, and some limits (character entry, etc.) may be lower.

### Precautions



IC Chip

- Do not insert USIM Card into any other IC card device. SoftBank is not liable for resulting damages.
- Keep the USIM Card IC chip clean; malfunction may result. Use a dry, soft cloth to clean the USIM Card.
- Do not attach labels to USIM Card. Malfunction may result.

### Important

- USIM Card is the property of SoftBank.
- USIM Card will be reissued for a fee if lost or damaged.
- Return USIM Card to SoftBank upon subscription termination.
- Returned USIM Cards are recycled.
- USIM Card specifications may change without prior notice.
- Back up USIM Card files. SoftBank is not liable for lost files.
- If your USIM Card or handset (with USIM Card inserted) is lost or stolen, suspend your service immediately. For details, contact SoftBank Mobile Customer Center, General Information (P.15-41).

### USIM PINs

There are two Security Codes for USIM Card; both are **9999** by default.

<b>PIN</b>	Security Code to prevent unauthorized use of handset
<b>PIN2</b>	Required to clear Call Costs and to set Max Cost, etc.

### PIN Lock

- Entering incorrect PIN three consecutive times activates PIN Lock or PIN2 Lock, limiting handset use.

### Canceling PIN Lock

- Contact SoftBank Mobile Customer Center, General Information (P.15-41) for your Personal Unblocking Key (PUK Code) and follow these steps:

**Enter PUK Code** ➡  ➡ **Enter new PIN/PIN2** ➡  ➡ **Re-enter new PIN/PIN2** ➡

- Write down PUK code.

### PUK Lock

- Entering incorrect PUK Code ten consecutive times activates PUK Lock, disabling handset. Contact SoftBank Mobile Customer Center, General Information (P.15-41) for recovery.

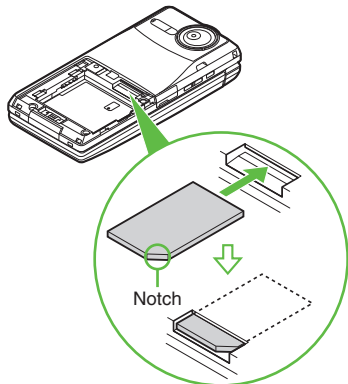


## USIM Card Installation

- Do not apply excessive force to insert/remove USIM Card.
- USIM Card must be inserted to use this handset.

### Inserting

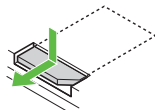
- 1 Remove battery (P.15-4)
- 2 Slide in USIM Card with IC chip facing down



- Reinstall battery (P.15-4).

### Removing

- 1 Remove battery
- 2 Gently slide out USIM Card as shown



- Reinstall battery.
- Take care not to lose removed USIM Card.

### After Repairs, USIM Card Replacement or Handset Upgrade/Replacement

- Some downloaded files may be inaccessible. In addition, S! Applications, BookSurfing®, S! Town and Near Chat may be disabled after USIM Card replacement.



# Battery Installation

## About Battery

- Charge battery at least once every six months; an uncharged battery may become unusable or affect files/settings.
- Depending on usage, bulges may appear near end of battery life; this does not affect safety.
- Replace battery if operating time shortens noticeably.
- Clean device charging terminals with a dry cotton swab.

## Lithium-ion Battery

- This product requires a lithium-ion battery. Lithium-ion batteries are a recyclable resource.

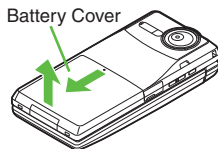


Li-ion00

- To recycle a used lithium-ion battery, take it to any shop displaying the symbol shown above.
- To avoid fire or electric shock, do not short-circuit or disassemble battery.

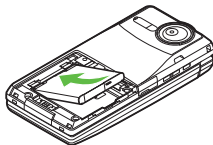
## Inserting & Removing

### 1 Remove cover



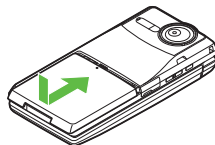
- Press and slide as shown.

### 2 Insert battery



- With logo side up, fit tabs into battery cavity slots.

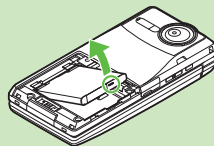
### 3 Close cover



- Position and slide the cover gently as shown until it stops.

## Removing

- Turn handset power off and lift battery as shown.



## Software Update

Check for firmware updates and download as required.

### Precautions

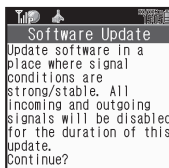
- Handset is disabled until update is complete. Update may take up to approximately 30 minutes.
- Update failure may disable handset. To reduce failure risk, make sure signal is strong and stable, and charge battery beforehand.
- Update will not start if other functions are in use. Before updating software (or before scheduled update time), end all active functions/applications.
- Disconnect USB Cable beforehand to reduce failure risk.
- Always back up important information. SoftBank cannot be held liable for damages from lost information, etc.

### Updating Software

Packet transmission fees do not apply to updates (including checking, downloading and rewriting).

1  ➔ **Settings** ➔  ➔ In **Phone menu, Software Update** ➔

2 **Software Update** ➔



- Follow onscreen instructions.

### Setting Update Period (Japanese)

In , **Update Period** ➔

- Follow onscreen instructions.

### Update Result

In , **Update Result** ➔

### Scheduled Update

Confirmation appears at scheduled update time. Press  or wait a while for update to start.

### When Updated

Update success notification appears and handset reboots.

After reboot, completion message appears and Information window opens.

### Update Result

While Information window appears, **Update Result** ➔





### Reboot Failure

- If handset does not return to Standby after update, turn power off, reinsert battery, then restart it. If it still does not restart, contact SoftBank Mobile Customer Center, Customer Assistance (P.15-41).



# Troubleshooting

## ■ General

Problem	Possible Cause	Solution
Handset won't turn on	Was  pressed long enough?	Press  longer.
	Battery may need to be charged or replaced.	Charge battery or install a charged battery.
	Battery may not be properly installed.	Install battery properly (P.15-4).
Handset won't respond	Is <b>Switch On/Off</b> in PIN Entry <b>On</b> ?	If <b>On</b> , PIN is required. Enter PIN according to onscreen prompt.
Insert USIM Card appears	USIM Card may not be properly inserted.	Turn power off and check that USIM Card is properly inserted, then restart handset. If the message still appears, USIM may be damaged.
	The correct USIM Card may not be inserted.	Make sure the correct USIM Card is inserted. The inserted USIM Card may not be valid.
	There may be debris on IC chip/terminals.	Clean relevant parts with a dry cloth and re-insert.
<b>REFRESH</b> appears and handset returns to Standby	Handset may have been dropped or subjected to shocks.	Handset failed to recognize USIM Card temporarily. This is not a malfunction.
Keypad won't respond	Keypad Lock may be active (  appears).	Cancel Keypad Lock (P.1-23).
	Function Lock may be active (  appears).	Cancel Function Lock (P.11-2).

Problem	Possible Cause	Solution
<b>Battery strength indicator flashes when not charging</b>	Ambient temperature may be outside 5°C to 35°C.	Use within an ambient temperature of 5°C - 35°C.
<b>Saved entry/folder does not appear on handset</b>	Entry/folder may be set to Secret.	Activate Show Secret Data (P.11-3).
<b>Cannot use Predictive</b>	Show Secret Data may be active.	Cancel Show Secret Data.
<b>Handset/AC Charger feels warm</b>	Handset/AC Charger may warm while charging.	Unless handset/AC Charger is too hot to touch, warmth is considered normal. Always avoid prolonged skin contact to prevent burn injuries.
	Handset may warm during extended periods of use.	
	Handset may warm during Video Calls.	
<b>Cannot access Memory Card files</b>	Memory Card may not be properly formatted.	Use 932SH-formatted Memory Cards.
<b>Clock settings are lost</b>	Did you leave handset without battery?	Clock settings remain even when removing battery for replacement, etc. However, if handset is left with no battery or an exhausted one for an extended period of time (approximately one hour), Clock will need to be reset.



**Charger/Battery**

Problem	Possible Cause	Solution
<b>Battery charges quickly</b>	Remaining charge shortens charging time.	This is normal.
	Battery may be terminally exhausted or defective. (Small Light flashes red.)	Replace battery with a new one.
<b>Battery charges slowly</b>	Charging slows during Video Calls.	End the call to charge faster.
	Battery may be charging via USB.	Use AC Charger.
<b>Battery won't charge</b>	AC Charger may not be properly connected to handset.	Make sure connector is securely inserted and retry.
	AC Charger may not be firmly plugged in to AC outlet.	Remove plug from outlet, re-insert and retry.
	Battery may not be properly installed.	Install battery properly (P.15-4).
	Battery, AC Charger, or Charging Terminals, or Device Port may be obstructed by dust, etc.	Clean terminals, connector and Port with a dry cotton swab and retry.
	Charger, etc. may not be supported.	Use specified AC Charger, etc. only; others may damage battery.

Problem	Possible Cause	Solution
<b>Battery Time seems shorter than usual</b>	High power consuming operations are in use.	Keep handset closed in Standby; reduce TV, SI Application, Media Player and Camera use, and limit transmissions/external connections.
	Using handset in poor conditions may shorten Battery Time.	Avoid prolonged use of handset out-of-range or in poor signal conditions.
	Power hungry settings may be active.	Lower Brightness, select shorter Display Saving/ Backlight time, etc.



## Key Assignments

Key	Kanji (Hiragana) [Double-byte]	Katakana [Double & Single-byte]	Alphanumerics [Double & Single-byte]	Numbers [Single-byte]	Character Codes
[1]	あいうえお あいうえお	アイウエオ アイウエオ	@,/-1 □ (space)	1	1
[2]	かきくけこ	カキクケコ	ABCabc2	2	2
[3]	さしすせそ	サシスセソ	DEFdef3	3	3
[4]	たちつとっ	タチツテトッ	GHIghi4	4	4
[5]	なにぬねの	ナニヌネノ	JKLjkl5	5	5
[6]	はひふへほ	ハヒフヘホ	MNOmno6	6	6
[7]	まみむめも	マミムメモ	PQRSpars7	7	7
[8]	やゆよやゆよ	ヤユヨヤユヨ	TUVtuv8	8	8
[9]	らりるれろ	ラリルレロ	WXYZwxyz9	9	9
[0]	わをんー ・	ワヲンー ・ ・ _1	0	0	0
[*]	Log, Pictogram List (double-byte), Symbol List <sup>3</sup>				_____
[#]	、。 # (line break) ? ! □ (space)		、。 # (line break) ?! □ (space)	#	_____














<sup>1</sup> - is available only in single-byte katakana entry.

<sup>2</sup> Available for phone number entry; some characters may not be enterable in some windows.

<sup>3</sup> May not be enterable in some windows.





Key	Kanji (Hiragana) [Double-byte]	Katakana [Double & Single-byte]	Alphanumerics [Double & Single-byte]	Numbers [Single-byte]	Character Codes
	Conversion (up) <sup>4</sup>	Cursor up			
	Conversion (down) <sup>5</sup>	Cursor down ↓ (line break)			
	Cursor left				
	Cursor right				
	Change entry mode				
	Toggle case (for some characters)			_____	
	_____	Toggle mode (upper/ lower and lower case)			_____
	Delete one character				
	Cancel conversion	_____	Cancel conversion <sup>6</sup>	_____	Delete code
 (Long)	Delete before or after cursor				
	Recover characters deleted with 				
	Re-convert <sup>7</sup>				
	_____	Re-convert <sup>6, 7</sup>			_____
	OK				
	Phonetic Conversion _____				
	Hiragana to Katakana/ Alphanumeric Conversion _____				

<sup>4</sup>Cursor moves up except during conversion.

<sup>5</sup>Cursor moves down except during conversion.

<sup>6</sup>Available only in single-byte alphanumeric entry.

<sup>7</sup>Press  immediately after inserting characters to re-convert them.



# Pager Code List

Gray background indicates upper and lower case available. Press **[R]** to switch immediately after character entry.

## Double-byte Upper Case

		Second Digit (Press Next)									
		1	2	3	4	5	6	7	8	9	0
First Digit (Press First)	1	あ	い	う	え	お	A	B	C	D	E
	2	か	き	く	け	こ	F	G	H	I	J
	3	さ	し	す	せ	そ	K	L	M	N	O
	4	た	ち	つ	て	と	P	Q	R	S	T
	5	な	に	ぬ	ね	の	U	V	W	X	Y
	6	は	ひ	ふ	へ	ほ	Z	?	!	-	/
	7	ま	み	む	め	も	¥	&		☺	*1
	8	や	(	ゆ	)	よ	*	#	Space	♥	*2
	9	ら	り	る	れ	ろ	1	2	3	4	5
	0	わ	を	ん	。	°	6	7	8	9	0

## Single-byte Upper Case

		Second Digit (Press Next)									
		1	2	3	4	5	6	7	8	9	0
First Digit (Press First)	1	ア	イ	ウ	エ	オ	A	B	C	D	E
	2	カ	キ	ク	ケ	コ	F	G	H	I	J
	3	サ	シ	ス	セ	ソ	K	L	M	N	O
	4	タ	チ	ツ	テ	ト	P	Q	R	S	T
	5	ナ	ニ	ヌ	ネ	ノ	U	V	W	X	Y
	6	ハ	ヒ	フ	ヘ	ホ	Z	?	!	-	/
	7	マ	ミ	ム	メ	モ	¥	&		☺	*1
	8	ヤ	(	ユ	)	ヨ	*	#	Space	♥	*2
	9	ラ	リ	ル	レ	ロ	1	2	3	4	5
	0	ワ	ヲ	ン	。	°	6	7	8	9	0

## Double-byte Lower Case

		Second Digit (Press Next)									
		1	2	3	4	5	6	7	8	9	0
First Digit (Press First)	1	あ	い	う	え	お	a	b	c	d	e
	2						f	g	h	i	j
	3						k	l	m	n	o
	4			つ			p	q	r	s	t
	5						u	v	w	x	y
	6						z				
	7										*1
	8	や		ゆ		よ					*2
	9										
	0				、	。					

## Single-byte Lower Case

		Second Digit (Press Next)									
		1	2	3	4	5	6	7	8	9	0
First Digit (Press First)	1	ア	イ	ウ	エ	オ	a	b	c	d	e
	2						f	g	h	i	j
	3						k	l	m	n	o
	4			ツ			p	q	r	s	t
	5						u	v	w	x	y
	6						z				
	7										*1
	8	ヤ		ユ		ヨ					*2
	9										
	0				、	。					

\*1 Press **[\*7]** **[F0]** to insert **↵** (line break) in mail message text, Notepad, etc.

\*2 Press **[\*8]** **[F0]** to toggle upper and lower case modes.



# Character Code List

First Three Digits	Last Digit									First Three Digits	Last Digit									First Three Digits	Last Digit																	
	0	1	2	3	4	5	6	7	8		9	0	1	2	3	4	5	6	7		8	9	0	1	2	3	4	5	6	7	8	9						
010	Space	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	047	ゆ	よ	ら	り	る	ろ	わ	161	葵	西	穉	悪	握	旭	葦	鯨	188	介	会	解	塊	壊	廻	怪	恠	悔	
011	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	048	あ	よ	らん				わ	162	梓	庄	幹	扱	宛	蛇	鮎	綫	189	恢	懐	戒	回	塊	廻	怪	恠	悔	
012	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	050								163	帖	或	杏	拾	宛	庵	暗	案	190										
013	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	051	オ	ア	イ	ウ	エ	オ	164	靴									191	蟹	懐	戒	回	塊	廻	怪	恠	悔	
014	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	052	オ	ア	イ	ウ	エ	オ	165										192										
015	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	053	オ	ア	イ	ウ	エ	オ	166										193										
016	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	054	オ	ア	イ	ウ	エ	オ	167										194										
017	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	055	オ	ア	イ	ウ	エ	オ	168										195										
018	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	056	オ	ア	イ	ウ	エ	オ	169										196										
019	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	057	オ	ア	イ	ウ	エ	オ	170										197										
020	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	058	オ	ア	イ	ウ	エ	オ	171										198										
021	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	060	ア	カ	シ	チ	ニ	フ	172										200										
022	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	061	カ	ク	ケ	コ	サ	タ	173										201										
023	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	062	カ	ク	ケ	コ	サ	タ	174										202										
024	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	063	カ	ク	ケ	コ	サ	タ	175										203										
026	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	064	カ	ク	ケ	コ	サ	タ	176										204										
027	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	065	カ	ク	ケ	コ	サ	タ	177										205										
028	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	070	カ	ク	ケ	コ	サ	タ	178										206										
029	ゝ	ゞ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	ゝ	071	カ	ク	ケ	コ	サ	タ	179										207										
031											072	カ	ク	ケ	コ	サ	タ	180										208										
032											073	カ	ク	ケ	コ	サ	タ	181										209										
033											074	カ	ク	ケ	コ	サ	タ	182										210										
034											075	カ	ク	ケ	コ	サ	タ	183										211										
035											076	カ	ク	ケ	コ	サ	タ	184										212										
036											077	カ	ク	ケ	コ	サ	タ	185										213										
037											078	カ	ク	ケ	コ	サ	タ	186										214										
038											080	カ	ク	ケ	コ	サ	タ	187										215										
039											081	カ	ク	ケ	コ	サ	タ	188										216										
040											082	カ	ク	ケ	コ	サ	タ	189										217										
041											083	カ	ク	ケ	コ	サ	タ	190										218										
042																		181										219										
043																		182										220										
044																		183										221										
045																		184										222										
046																		185																				



First Three Digits		Last Digit									First Three Digits		Last Digit																																						
0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9												
223	喬	鄉	鏡	響	驚	仰	疾	疒	疒	257	号	合	壕	拷	濼	轟	藹	克	刻	293	從	戎	柔	汁	波	獸	縱	重	銃	叔	329	煽	旋	穿	箭	線	蕭	諳	踐												
224	業	局	曲	極	桐	殺	殺	殺	殺	258	告	國	劫	搗	轟	藹	藹	腰	甌	294	夙	宿	淑	祝	波	獸	縱	重	銃	叔	330	煽	旋	穿	箭	線	蕭	諳	踐												
225	巾	錦	欣	欣	琴	金	金	金	金	259	忽	骨	國	搗	轟	藹	藹	腰	甌	295	夙	宿	淑	祝	波	獸	縱	重	銃	叔	331	煽	旋	穿	箭	線	蕭	諳	踐												
226	芹	菌	矜	矜	矜	矜	矜	矜	矜	260	昏	此	棍	棍	棍	棍	棍	棍	棍	296	夙	宿	淑	祝	波	獸	縱	重	銃	叔	332	煽	旋	穿	箭	線	蕭	諳	踐												
226	俱	句	區	區	區	區	區	區	區	261										297	夙	宿	淑	祝	波	獸	縱	重	銃	叔	332	煽	旋	穿	箭	線	蕭	諳	踐												
227	駒	句	區	區	區	區	區	區	區	262										298	夙	宿	淑	祝	波	獸	縱	重	銃	叔	333	煽	旋	穿	箭	線	蕭	諳	踐												
228	串	句	區	區	區	區	區	區	區	263										299	夙	宿	淑	祝	波	獸	縱	重	銃	叔	334	煽	旋	穿	箭	線	蕭	諳	踐												
230										264										300	夙	宿	淑	祝	波	獸	縱	重	銃	叔	335	煽	旋	穿	箭	線	蕭	諳	踐												
231										265										301	夙	宿	淑	祝	波	獸	縱	重	銃	叔	336	煽	旋	穿	箭	線	蕭	諳	踐												
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254										291																																									
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Table with columns: First Three Digits, Last Digit, and character combinations. The table is organized into a grid with sub-headers for 'First Three Digits' and 'Last Digit' in both directions.



First Three Digits	Last Digit									First Three Digits	Last Digit									First Three Digits	Last Digit																																																																																																																																																																																																																																																																																																																																																																							
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478										518	噱	噱	噱	噱	噱	噱	噱	噱	噱	558	協	恒	忮	恚	恚	恚	恚	恚	恚	598	梵	栲	栲	栲	栲	栲	栲	栲	599	桤	栲	栲	栲	栲	栲	栲	栲	601	梲	栲	栲	栲	栲	栲	栲	栲	602	梲	栲	栲	栲	栲	栲	栲	栲	603	桤	栲	栲	栲	栲	栲	栲	栲	604	梲	栲	栲	栲	栲	栲	栲	栲	605	桤	栲	栲	栲	栲	栲	栲	栲	606	梲	栲	栲	栲	栲	栲	栲	栲	607	桤	栲	栲	栲	栲	栲	栲	栲	608	梲	栲	栲	栲	栲	栲	栲	栲	609	桤	栲	栲	栲	栲	栲	栲	栲	610	梲	栲	栲	栲	栲	栲	栲	栲	611	桤	栲	栲	栲	栲	栲	栲	栲	612	梲	栲	栲	栲	栲	栲	栲	栲	613	桤	栲	栲	栲	栲	栲	栲	栲	614	梲	栲	栲	栲	栲	栲	栲	栲	615	桤	栲	栲	栲	栲	栲	栲	栲	616	梲	栲	栲	栲	栲	栲	栲	栲	617	桤	栲	栲	栲	栲	栲	栲	栲	618	梲	栲	栲	栲	栲	栲	栲	栲	619	桤	栲	栲	栲	栲	栲	栲	栲	620	梲	栲	栲	栲	栲	栲	栲	栲	621	桤	栲	栲	栲	栲	栲	栲	栲	622	梲	栲	栲	栲	栲	栲	栲	栲	623	桤	栲	栲	栲	栲	栲	栲	栲	624	梲	栲	栲	栲	栲	栲	栲	栲	625	桤	栲	栲	栲	栲	栲	栲	栲	626	梲	栲	栲	栲	栲	栲	栲	栲	627	桤	栲	栲	栲	栲	栲	栲	栲	628	梲	栲	栲	栲	栲	栲	栲	栲	629	桤	栲	栲	栲	栲	栲	栲	栲	630	梲	栲	栲	栲	栲	栲	栲	栲	631	桤	栲	栲	栲	栲	栲	栲	栲	632	梲	栲	栲	栲	栲	栲	栲	栲	633	桤	栲	栲	栲	栲	栲	栲	栲	634	梲	栲	栲	栲	栲	栲	栲	栲	635	桤	栲	栲	栲	栲	栲	栲	栲	636	梲	栲	栲	栲	栲	栲	栲	栲	636	桤	栲	栲	栲	栲	栲	栲	栲











































## Weather Indicator List




Basic Status	
	Clear skies (day)
	Clear skies (night)
	Cloudy
	Rain
	Snow
	Thunder showers
	Chance of rain: 0%
	Chance of rain: 10%
	Chance of rain: 20%
	Chance of rain: 30%
	Chance of rain: 40%
	Chance of rain: 50%
	Chance of rain: 60%
	Chance of rain: 70%
	Chance of rain: 80%
	Chance of rain: 90%
	Chance of rain: 100%
	Then
	Partly/chance of



Pollen Count	
	Low
	Moderate
	High
	Extreme


Cherry Blossom	
	Flowering
	Almost full bloom
	Full bloom
	Beginning of petal fall

Fall Foliage	
	No color change
	Colors appearing
	Peak
	Defoliating

Ultraviolet	
	Low
	Moderate
	High
	Extreme

Typhoon	
	Forming
	Approaching
	Caution necessary

Disaster	
	Heavy rain
	Gale

Information	
	Notification



# Specifications

## SoftBank 932SH

<b>Weight</b>	Approximately 140 g
<b>Continuous Talk Time</b>	Approximately 250 minutes (3G) Approximately 230 minutes (GSM)
<b>Continuous Standby Time</b>	Approximately 350 hours (3G) Approximately 320 hours (GSM) (closed position)
<b>Charging Time (power off)</b>	AC Charger: Approximately 140 minutes In-Car Charger: Approximately 140 minutes
<b>Dimensions (W x H x D)</b>	Approximately 50 x 109 x 18 mm (closed position, without protruding parts)
<b>Maximum Output</b>	0.25 W (3G) 2.0 W (GSM)

- Above values calculated with battery installed.
- Continuous Talk Time is an average measured with a new, fully charged battery, with stable signals.
- Continuous Standby Time is an average measured with a new, fully charged battery, in closed position without calls or operations, in Standby with stable signals. In Japan (3G service area), the value is calculated with IP Service Setting, Decoration Call, S! Appli Notification Setting and Mobile Widget Notification Setting set to **Off**.
- Talk Time/Standby Time may vary by environment, status, settings, etc.
- Display employs precision technology, however, some pixels may appear brighter/darker.

## Handset Materials

Parts	Materials & Finishing
Housing (Display side)	Magnesium alloy/ Chemical conversion treatment, baking finish
Housing (External Display side)	Aluminum alloy/Anodized aluminum finish, acrylic UV curing painting (sealer: acrylic painting)
Housing (rotation support side)	ABS resin, stainless alloy/ Acrylic UV curing painting (sealer: acrylic painting)
Housing (Keypad side)	Nylon resin/Acrylic UV curing painting (sealer: acrylic painting)
Housing (battery side), Battery Cover, back ornament, hinge cover	ABS resin/Acrylic UV curing painting (sealer: acrylic painting)
Housing cover (Display side), camera ornament frame	ABS resin/Discontinuous deposition
Lens cover, screw cover (Display side), Mobile Light cover, External Display window	Acrylic resin
Display window	Acryl, PC resin
Infrared Port	ABS resin
Camera ornament	PET
Rotation stopper	Urethane

Parts	Materials & Finishing
Multi Selector, Start Key, Power On/Off Key, Mail Key, Yahoo! Keitai Key, Shortcuts & A/a Key, Clear/Back Key, Multi Job & Manner Key, Keypad, TV & Text Key, Dictionary Key, Camera Key, Side Keys, Center Key, battery	PC resin
Memory Card Slot Cover, Headphone Port Cover, External Device Port Cover	PC resin, elastomeric resin/Acrylic UV painting
Charging Terminals	SUS/Gold plating (sealer: nickel)
Screw (all pieces)	SWCH16A/Ni plating
USIM pin	Copper alloy/Gold plating (sealer: nickel)

## Accessory

### Battery

<b>Voltage</b>	3.7V
<b>Battery Type</b>	Lithium-ion
<b>Capacity</b>	800 mAh
<b>Dimensions (W x H x D)</b>	Approximately 39.6 x 34.1 x 5.6 mm (without protruding parts)



## Getting Started

## ■ Standby Shortcut

<b>Savable Items</b>	30 per sheet
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## Basic Operations

## ■ Text Entry

<b>User Dictionary</b>	250 entries (5 per reading) Word: 15 characters Reading: 8 hiragana
<b>Acquire Dictionary</b>	5 dictionaries
<b>Paste List</b>	10 text strings
<b>Recoverable Deleted Characters</b>	15,360 characters (30,720 bytes)
<b>Dictionary</b>	Meikyo Japanese Dictionary: Approximately 47,100 words/phrases Genius English-Japanese Dictionary: Approximately 45,700 words/phrases Genius Japanese-English Dictionary: Approximately 55,800 words/phrases

## ■ Phone Book

<b>Entry</b>	1,000 entries
<b>Name/Reading</b>	Last/First: 32 characters each
<b>Phone Number</b>	5 numbers (32 digits each)
<b>Mail Address</b>	5 addresses (128 characters each)
<b>Category</b>	16 Categories
<b>Address</b>	Postal Code: 20 characters Country: 32 characters Others: 64 characters each
<b>Office</b>	Office Name/Division/Post: 32 characters each
<b>Homepage</b>	1,024 bytes
<b>Note</b>	256 characters
<b>Mail Groups</b>	20 Groups (20 members each) Group name: 16 characters

## Calling

<b>Dialed Numbers</b>	Dialed Numbers: 30 records Dialed Ranking: 10 records
<b>Received Calls</b>	30 records
<b>Answer Phone/ Caller Voice</b>	20 messages or 90 seconds
<b>Auto Answer List</b>	10 numbers
<b>Decoration Call</b>	100 KB including 20 characters
<b>Speed Dial/Mail</b>	100 numbers/addresses

## Messaging

<b>Memory</b>	Received Msg.	10 MB or 3,000 messages
	Drafts	
	Sent Messages	5 MB (or 1,000 messages for Sent Messages)
	Unsent Messages	
	Templates	90 MB (shared with Data Folder and S! Appli Library)

<b>PC Mail/S! Mail Subject</b>	512 single-byte characters	
<b>PC Mail/S! Mail Message</b>	Approximately 30,000 single-byte characters	
<b>SMS Message</b>	160 single-byte alphanumerics	
<b>Auto Resend</b>	2 times	
<b>Attachment</b>	20 files or 1 MB <sup>1</sup>	
<b>Send Reservation</b>	10 messages	
<b>Signature</b>	256 single-byte characters	
<b>Recipient</b>	20 numbers/addresses	
<b>Folder</b>	20 folders (20 sort keys each)	
<b>Chat Folder</b>	Memory	300 messages per folder
	Folder	10 folders (20 members each)

<b>Graphic Mail</b>	1 sound or Flash <sup>®</sup> file, or 40 images/ My Pictograms (with 1 sound or Flash <sup>®</sup> file)	
<b>3D Pictogram</b>	150 characters	
<b>Auto Reply</b>	20 numbers/addresses (256 single-byte characters each)	
<b>Anti Spam Measures</b>	Individual	20 entries
	Permitted List	20 entries

<sup>1</sup>Limit may be lower depending on message text, etc.

## ■ PC Mail Settings

<b>PC Mail Account</b>	Account	3 accounts
	Account Name	20 characters
<b>Set Receiving</b>	User Name	128 characters
	Password	40 characters
	ReceivingServer	128 characters
<b>Set Sending</b>	Port Number	1 to 65535
	Sender Name	20 characters
	Mail Address	128 characters
<b>PC Mail DL</b>	Individual Address	20 addresses

## Yahoo! Keitai &amp; PC Site Browser

<b>Download</b>	Yahoo! Keitai	300 KB per page
	PC Site Browser	1 MB per file
<b>History</b>	300 pages	
<b>URL Entry Log</b>	10 URLs	
<b>Bookmarks/ Saved Pages</b>	100 pages	
<b>Tab</b>	3 tabs at one time	
<b>Input Memory</b>	20 entries	
<b>Streaming History</b>	20 URLs	
<b>RSS Feed</b>	30 entries (60 KB per entry)	



**Digital TV**

<b>Recorded File</b>	ISDB-T mobile Video profile (SD-Video standard)	
<b>Recording Time (example)</b>	Handset	Approximately 30 minutes
	Memory Card	Approximately 80 minutes on 256 MB Memory Card
<b>Marker</b>	99 Markers (10 per file)	
<b>Split File</b>	99 portions per file	
<b>Time Shift Recording</b>	30 minutes	
<b>Reservation List</b>	5 entries (4 hours each on 1 GB Memory Card)	

**Camera & Imaging**
**Mobile Camera**

<b>Effective Pixels</b>	External Camera	8.0 Megapixels
	Internal Camera	310 Kilopixels
<b>Auto Shut-off Time</b>	Approximately 3 minutes	

**Photo Camera**

<b>Zoom</b>	1x - 20.4x	
<b>Picture Size; Portrait (W x H dots)</b>	8M	2448 x 3264
	3M	1536 x 2048 (QXGA)
	Full HD	1080 x 1920
	2M	1200 x 1600 (UXGA)
	1.2M	960 x 1280 (Quad-VGA)
	Normal HD	768 x 1366
	Wallpaper	480 x 854
	VGA	480 x 640
	QVGA	240 x 320
	QQVGA	120 x 160

<b>Picture Size; Landscape (W x H dots)</b>	3M	2048 x 1536
	Full HD	1920 x 1080
	2M	1600 x 1200
	1.2M	1280 x 960
	Normal HD	1366 x 768
	Wallpaper	854 x 480
<b>Scanner Image Size (W x H dots)</b>	VGA	640 x 480
	QVGA	320 x 240
	QQVGA	160 x 120
	<b>File Format</b>	JPEG
<b>Memory</b>	Approximately 33 files (at 8M, High Quality) on handset with no other files	
<b>File Name</b>	yymmdd_hhmmss	
<b>Shooting Distance</b>	Macro: 10 cm	
<b>Long Exposure</b>	Exposure time: 4 seconds	
<b>Background Save</b>	3 files	
<b>Face Auto Focus</b>	VGA or larger	
<b>Other</b>	Use 40 KB or smaller transparent PNG files as Frames	

**Video Camera**

<b>Zoom</b>	1x - 5.1x	
<b>Record Size (W x H dots)</b>	Extended Video	864 x 480 (Wide)
		640 x 480 (VGA)
		320 x 240 (QVGA)
		240 x 176 (HQVGA)
		176 x 144 (QCIF)
	For Message	320 x 240 (QVGA)
		176 x 144 (QCIF)
		128 x 96 (SubQCIF)
<b>File Format</b>	3GP	
<b>Recording Time per Shot</b>	Extended Video	Approximately 30 minutes* on Memory Card
	For Message	1 MB or 295 KB
<b>File Name</b>	yymmdd_hhmmss	
<b>Recording Distance</b>	1.5 m in good light	
<b>Still Image Capture</b>	3 images	
<b>Recording Pause Supported</b>	HQVGA or larger	

\*Varies with handset usage, location or settings.



## ■ Editing Images

Picture Editor	Resize (W x H dots)	Wallpaper (480 x 854) Power On/Off (480 x 854) Incoming Call (320 x 320) Alarm (480 x 208) Pictogram (96 x 96) VGA (480 x 640) QVGA (240 x 320) Cut
	Retouch	52 x 52 dots or larger JPEG/PNG images
	Paste	16 characters
	Correction	52 x 52 dots or larger JPEG/PNG images
Composite	Merge Panorama	JPEG images between W 48 x H 64 dots and 240 x 320 dots

## Media Player

Supported Formats	WMA (.wma), AAC (.mp4/.3gp/.m4a), Secure AAC (SD-Audio standard) (Some files may not play depending on sampling frequency and bit rate)
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## S! Applications

Memory	100 items or 90 MB (shared with Templates folder and other folders in Data Folder)
Remote Control	Approximately 5 m

## Handy Extras

### ■ PIM/Life

Calendar/ Tasks	300 entries, Subject: 32 characters Description: 128 characters Location: 16 characters Set Holiday: 10 holidays	
Alarms	5 entries, Subject: 9 characters	
Wakeup TV	Auto Shut-off	Approximately 30 minutes
Calculator	999,999,999,999	
Expenses Memo	30 entries (999,999.99 yen each)	
Osaifu-Keitai®	Remote Lock password: 5 - 16 single-byte alphanumerics	

Preset holidays are based on Japanese calendar as of December 2008.

### ■ Clock/Gauge

Stopwatch	23 hours 59 minutes 59.9 seconds in 0.1-second increments Lap time: 4 records	
Countdown Timer	99 minutes 59 seconds in 1-second increments	
World Clock	City name: 16 characters	
Pedometer	Today's Walking	Steps: 99,999
		Time: 23 hours 59 minutes 59 seconds
		Exercise: 71.9 Ex
		Calories: 9,999.9 kcal
		Distance: 179.9 km
	Fat burned: 999.9 g	
Log	2 years	
	Daily view: 9,999 steps per hour	
	Weekly view: 99,999 steps per day	

Pedometer	Accumulated Data	All Days: 999 days
		Steps: 99,999,999
		Time: 99,999 hours 59 minutes 59 seconds
		Exercise: 99,999.9 Ex
		Calories: 9,999,999.9 kcal
	Average	Distance: 999,999.9 km
		Fat burned: 999,999.9 g
		Steps: 99,999
		Time: 23 hours 59 minutes 59 seconds
		Exercise: 71.9 Ex Calories: 9,999.9 kcal Distance: 179.9 km Fat burned: 999.9 g
S! GPS Navi	My Location	50 entries

### ■ Doc./Rec.

Document Viewer	Supported Formats	PDF (.pdf) Microsoft® Excel® (.xls) Microsoft® Word (.doc) Microsoft® PowerPoint® (.ppt)
	File Size	10 MB
Notepad	500 entries (8,192 characters each)	
Voice Recorder	For Message	Approximately 10 minutes per file
	Extended Voice	99 hours 59 minutes 59 seconds
Scan Barcode (Continuous Mode)	UPC/JAN	50 codes
	QR Code	16 codes
Create QR Code	Equivalent of 513 digits, 311 alphanumerics or 131 kanji	
Scan Text	256 characters	



## Entertainment & Communication

### Widget

<b>Savable Items</b>	4 widgets (S! Quick News & S! Friend's Status: 1, others: 3) per sheet x 4 sheets
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### S! Quick News

<b>Savable Items</b>	Special: 1 item News Flash: 1 item General: 4 items
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### e-Books

<b>Text Copy</b>	20 characters
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### S! Loop

<b>S! Loop List</b>	5 items
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### S! Friend's Status

<b>Member</b>	30 members
<b>My Status</b>	Name: 7 characters Comment: 15 characters Status Label: 4 characters
<b>Status Templates</b>	Template name: 12 characters

### S! Circle Talk

<b>Participant</b>	11 members
<b>Speak Time</b>	30 seconds each
<b>Member List</b>	30 entries (10 members per Group)

## Blog Tool

<b>Blog Details</b>	5 entries	
<b>Blog Menu</b>	16 characters	
<b>Blog Settings (Mail)</b>	Email Address	128 characters
	Title	32 characters
	Text	128 characters
	Picture Size	S (320 x 320) M (640 x 640) L (1024 x 1024) Send
<b>Blog Settings (Yahoo! Keitai &amp; PC Site Browser)</b>	URL for Posting	1,024 characters
	URL for Viewing	1,024 characters

## Data Folder

<b>Memory</b>	90 MB (shared with Templates folder and S! Appli Library)
---------------	---

## Memory Card

<b>Backup File Name</b>	'ymmddXX' (XX: 2 digits/alphabets)
-------------------------	------------------------------------

\*ymmdd for Contents Keys.

## Connectivity & File Backup

### Infrared

<b>Infrared Transfer</b>	IrMC 1.1	
	Range	Within 20 cm
<b>IrSS Transfer (JPEG images)</b>	Receive 2,500 KB or less; send 4,000 KB or less (after resizing)	

### Bluetooth®

<b>Communication System</b>	Bluetooth® specification Ver. 2.0
<b>Supported Profiles</b>	Headset Profile Hands-Free Profile Dial-Up Networking Profile Object Push Profile File Transfer Profile Basic Imaging Profile Advanced Audio Distribution Profile Audio/Video Remote Control Profile
<b>Output</b>	Bluetooth® Power Class 2
<b>Range</b>	Within 10 m
<b>Device Search</b>	16 devices
<b>Pairing</b>	32 devices
<b>Device Name</b>	16 characters
<b>Printing</b>	JPEG/PNG images

### S! Addressbook Back-up

<b>Log</b>	10 Backup/Restore/ Synchronization records
------------	---

## Network

<b>Add Network</b>	5 Networks Country/Network code: 3 digits Name: 25 single-byte characters
--------------------	---



## Reference URLs

- **SOFTBANK MOBILE Corp.**  
<http://mb.softbank.jp/mb/en/>
- **microSD™ Memory Card Compatibility**  
From PC (Japanese)  
[http://k-tai.sharp.co.jp/peripherals/sd\\_support.html](http://k-tai.sharp.co.jp/peripherals/sd_support.html)  
From Handset (Japanese)  
<http://shweb.sharp.co.jp/>
- **S! Addressbook Back-up**  
<http://mb.softbank.jp/mb/en/service/advanced/sab/>
- **SVG-T**  
From Handset (Japanese)  
[http://shweb.sharp.co.jp/svg/index\\_pdc.html](http://shweb.sharp.co.jp/svg/index_pdc.html)
- **Association for Promotion of Digital Broadcasting**  
From PC  
<http://www.dpa.or.jp/english/>  
From Handset (Japanese)  
<http://www.dpa.or.jp/1seg/k/>



## Memory Card Structure & Contents

Memory Card Structure			Contents (Location when Viewed on Handset)	
DCIM	XXXSHARP		Still images in DCIM	
PRIVATE	MYFOLDER	Local Contents	SD Local Contents	
		Mail	Messaging folder backups (Received Msg., Sent Messages and Drafts)	
		My Items	Book	e-Book files in Data Folder (Books)
			Bookmarks	Yahoo! Keitai Bookmarks
			Character	PNG files in Data Folder (Character)
			CSI	Decoration Call files in Data Folder (Decoration Call)
			Custom Screens	Customized Screen files in Data Folder (Customized Screen)
			Flash(R)	Flash® Wallpaper files in Data Folder (Flash®)
			Flash(R) Ringtones	Flash® ringtones in Data Folder (Flash® Ringtones)
			Games and More	SI Applications
			Hot Status Template	Template files in Data Folder (Status Templates)
			Mail Art	Files in Data Folder (Mail Art)
			Message Templates	Graphic Mail templates in Templates folder
			Music	Music files in Data Folder (Music)
			Other Documents	Other files in Data Folder (Other Documents)
			Pictograms	GIF files in Data Folder (My Pictograms)
			Pictures	Still images in Data Folder (Pictures)
			Sounds & Ringtones	Melodies and other sound files in Data Folder (Ring Songs-Tones)
			Videos	Video files in Data Folder (Videos)
			Virtual Space	SI Town files
			Widget	Widget files in Data Folder (Widget)
		WMAudio	WMA files for Media Player (WMA)	
			SH_Folder	Application management files
	Utility	Backup files (Phone Book), etc.		
	SHARP	MOBILE	Backup files (User Dictionary), etc.	
		SD_AUDIO	SD-Audio files for Media Player (SD AUDIO)	





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### Warranty & Service

#### ■ Warranty

Warranty is provided when you purchase handset.

- Check the name of distributor and date of purchase.
- Read contents and keep in a safe place.
- The warranty term is described in the warranty.

#### ■ After-Sales Services

See **P.15-6** "Troubleshooting" before contacting SoftBank for service or repairs.

If you cannot find solutions or solve problems, contact SoftBank Mobile Customer Center, Customer Assistance (**P.15-41**) in your subscription area and provide a detailed description of the problem.

- Repairs within warranty are performed under terms and conditions described.
- Out of warranty, possible repairs are performed upon request at subscriber expense.

For other services, contact the distributor, the nearest SoftBank Shop or SoftBank Mobile Customer Center, General Information (**P.15-41**).

Replacement parts are available for 6 years after termination of production.

- SoftBank is not liable for any damages resulting from use of this product.
- SoftBank is not liable for any damages resulting from accidental loss/alteration of handset data. Keep a copy of Phone Book entries, etc. in a separate place.
- Disassembling or modifying handset may violate the Radio Law. Modified handset will not be repaired.





## Customer Service

For SoftBank handset or service information, call General Information. For repairs, call Customer Assistance.

### SoftBank Mobile Customer Center

From a SoftBank handset, dial toll free at **157**  
for General Information or **113** for Customer Assistance

### SoftBank Mobile Global Call Center

From outside Japan, dial **+81-3-5351-3491**  
(International charges apply.)

Call these numbers toll free from landlines.

Subscription Area	Service Center	Phone Number
Hokkaido, Aomori, Akita, Iwate, Yamagata, Miyagi, Fukushima, Niigata, Tokyo, Kanagawa, Chiba, Saitama, Ibaraki, Tochigi, Gunma, Yamanashi, Nagano, Toyama, Ishikawa, Fukui	General Information	0088-240-157
	Customer Assistance	0088-240-113
Aichi, Gifu, Mie, Shizuoka	General Information	0088-241-157
	Customer Assistance	0088-241-113
Osaka, Hyogo, Kyoto, Nara, Shiga, Wakayama	General Information	0088-242-157
	Customer Assistance	0088-242-113
Hiroshima, Okayama, Yamaguchi, Tottori, Shimane, Tokushima, Kagawa, Ehime, Kochi, Fukuoka, Saga, Nagasaki, Oita, Kumamoto, Miyazaki, Kagoshima, Okinawa	General Information	0088-250-157
	Customer Assistance	0088-250-113

