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14

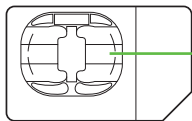
Appendix



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 Customer Center, General Information (P.14-40).

USIM PINs

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

PIN	Security Code to prevent unauthorized use of handset
PIN2	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.

Canceled PIN Lock

- Contact SoftBank Customer Center, General Information (P.14-40) 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 Customer Center, General Information (P.14-40) for recovery.

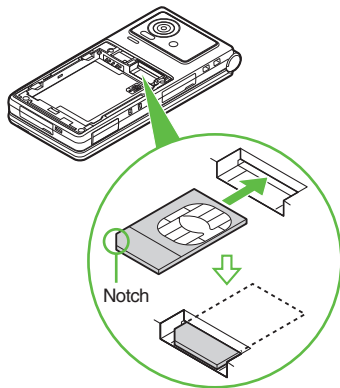


USIM Card Installation

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

Inserting

- 1 Remove battery (P.14-4)
- 2 Slide in USIM Card with IC chip facing up

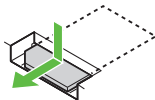


- Reinstall battery (P.14-4).

Removing

Take care not to lose removed USIM Card.

- 1 Remove battery (P.14-4)
- 2 Gently slide out USIM Card as shown



- Reinstall battery (P.14-4).

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.



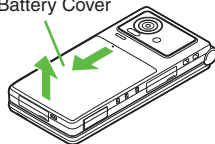
Li-ion00

- 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

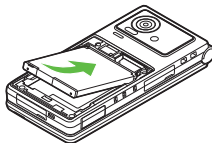
1 Remove cover

Battery Cover



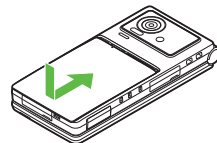
- Press and slide as shown.

2 Insert battery



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

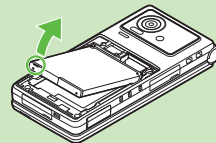
3 Close cover



- 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

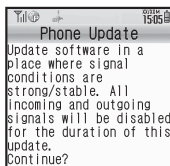
- Handset is disabled until update is complete. Update may take up to approximately 30 minutes.
- Update failure may disable handset. To reduce failure risk, make sure signal is strong and stable, and charge battery beforehand.
- Update will not start if other functions are in use. Before updating software (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 Settings menu, Software Update** ➔ 

2  **Phone Update** ➔ 



- Follow onscreen instructions.

Setting Update Period (Japanese)


In  **Update Period** ➔ 

- Follow onscreen instructions.

Update Result

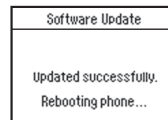
In  **Update Result** ➔ 

Scheduled Update

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


When Updated

A message 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 Customer Center, Customer Assistance (P.14-40).



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.14-4).
Handset won't respond	Is Switch On/Off in PIN Entry On ?	If On , 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.
REFRESH 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.1-18).
	Function Lock may be active ( appears).	Cancel Function Lock (P.11-2).

Problem	Possible Cause	Solution
Battery strength indicator flashes when not charging	Ambient temperature may be outside 5°C to 35°C.	Use within an ambient temperature of 5°C - 35°C.
Saved entry/folder does not appear on handset	Entry/folder may be set to Secret.	Activate Show Secret Data (P.11-3).
Cannot use Predictive	Show Secret Data may be active.	Cancel Show Secret Data.
Handset/AC Charger feels warm	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.	
Cannot access Memory Card files	Memory Card may not be properly formatted.	Use 930SH-formatted Memory Cards.
Clock settings are lost	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
Battery charges quickly	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.
Battery charges slowly	Charging slows during Video Calls.	End the call to charge faster.
	Battery may be charging via USB.	Use AC Charger.
Battery won't charge	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.14-4).
	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
Battery Time seems shorter than usual	High power consuming operations are in use.	Keep handset closed in Standby; reduce TV, S! 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	タチツテトツ	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 ³				_____
☐#☐	☐ (line break) ? ! ☐ (space)			#	_____




¹ - is available only in single-byte katakana entry.

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

³ 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) ⁴	Cursor up			
	Conversion (down) ⁵	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	_____			Delete code
 (Long)	Delete before or after cursor				
	Recover characters deleted with 				
	Re-convert ⁶				

	OK				
	Phonetic Conversion	_____			
	Hiragana to Katakana/ Alphanumeric Conversion	_____			

⁴Cursor moves up except during conversion.

⁵Cursor moves down except during conversion.



⁶Press  immediately after inserting characters to re-convert them.





Pager Code List

Gray background indicates upper and lower case available. Press  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	ゝ	ゞ	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	ヰ	ヱ	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				ゝ	ゞ					

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				ヰ	ヱ					

*1 Press   to insert  (line break) in mail message text, Notepad, etc.




















*2 Press   to toggle upper and lower case modes.











First Three Digits	Last Digit									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	0	1	2	3	4	5
363	つ									392	粘	乃	迺	堇	囊	惱	濃	納	能	424	僻	壁	癖	碧	別	營	蔑	箇	偏	委	ゆ								
364	植	追	鎚	痛	塚	柁	墜	樺	樞	393	腦	濃	視	蛋	は	把	播	霸	杞	425	片	篇	編	辺	返	遍	使	勉	婉	弁	449	愉	愈	癒	癒	優	勇	友	幽
365	漬	柘	薦	通	鏢	樁	樞	樞	樞	394	派	芘	破	萎	把	芭	播	霸	杞	426	鞭	鞭	編	返	遍	使	勉	婉	弁	450	愉	愈	癒	癒	優	勇	友	幽	
366	孺	紬	爪	吊	釣	鵠	鶴	鶴	鶴	395	波	派	破	萎	把	芭	播	霸	杞	426	保	鋪	鋪	捕	步	甫	輔	輔	451	悠	愉	癒	癒	優	勇	友	幽		
366	て									396	倍	培	煤	煤	把	芭	播	霸	杞	427	穗	保	鋪	鋪	捕	步	甫	輔	輔	452	祐	愉	癒	癒	優	勇	友	幽	
367	剃	貞	呈	定	堤	帝	亭	停	偵	397	陪	排	煤	煤	把	芭	播	霸	杞	428	抱	保	鋪	鋪	捕	步	甫	輔	輔	453	余	與	預	備	幼	妖	容	予	
368	悌	抵	提	提	提	帝	亭	停	偵	398	陪	排	煤	煤	把	芭	播	霸	杞	429	抱	保	鋪	鋪	捕	步	甫	輔	輔	454	揚	與	預	備	幼	妖	容	予	
369	艇	抵	提	提	提	帝	亭	停	偵	399	燥	排	煤	煤	把	芭	播	霸	杞	430	蜂	保	鋪	鋪	捕	步	甫	輔	輔	455	揚	與	預	備	幼	妖	容	予	
370	的	笛	鄧	鄧	鼎	泥	撤	撤	敵	400	烟	箱	箱	箱	筆	筆	筆	筆	431	望	法	法	坊	坊	坊	坊	坊	456	養	欲	欲	欲	欲	欲	欲	欲			
371	的	典	典	典	典	典	典	典	典	401	烟	箱	箱	箱	筆	筆	筆	筆	432	望	法	法	坊	坊	坊	坊	坊	456	養	欲	欲	欲	欲	欲	欲	欲			
372	鉄	典	典	典	典	典	典	典	典	402	拔	半	反	反	班	班	班	班	433	望	法	法	坊	坊	坊	坊	坊	456	養	欲	欲	欲	欲	欲	欲	欲			
373	転	典	典	典	典	典	典	典	典	403	半	反	反	反	班	班	班	班	434	望	法	法	坊	坊	坊	坊	坊	457	亂	亂	亂	亂	亂	亂	亂	亂			
373	吐									404	煩	煩	煩	煩	煩	煩	煩	煩	435	亂	亂	亂	亂	亂	亂	亂	亂	458	亂	亂	亂	亂	亂	亂	亂	亂			
374	堵	塗	妬	屠	斗	杜	渡	登	吐	405	卑	否	妃	彼	悲	批	披	匪	436	味	枚	每	哩	摩	麻	埋	妹	458	履	李	梨	理	陸	律	立	吏			
375	賭	途	都	都	斗	杜	度	登	吐	406	卑	否	妃	彼	悲	批	披	匪	437	味	枚	每	哩	摩	麻	埋	妹	459	履	李	梨	理	陸	律	立	吏			
376	怒	倒	冬	冬	斗	杜	度	登	吐	407	卑	否	妃	彼	悲	批	披	匪	438	味	枚	每	哩	摩	麻	埋	妹	460	履	李	梨	理	陸	律	立	吏			
377	岩	島	鳩	湯	糖	糖	糖	糖	糖	408	岩	島	鳩	湯	糖	糖	糖	糖	439	蘭	蘭	蘭	蘭	蘭	蘭	蘭	蘭	461	葎	隆	隆	隆	隆	隆	隆	隆			
378	盜	岩	島	鳩	湯	糖	糖	糖	糖	409	盜	岩	島	鳩	湯	糖	糖	糖	440	蘭	蘭	蘭	蘭	蘭	蘭	蘭	蘭	462	葎	隆	隆	隆	隆	隆	隆	隆			
379	答	筒	筒	筒	筒	筒	筒	筒	筒	410	答	筒	筒	筒	筒	筒	筒	筒	440	蜜	湊	衰	稔	脈	妙	耗	民	密	463	兩	向	向	向	向	向	向	向		
380	鏡	陶	董	湯	頭	騰	騰	騰	騰	411	肘	百	評	依	匹	匹	匹	441	蜜	湊	衰	稔	脈	妙	耗	民	密	464	厘	厘	厘	厘	厘	厘	厘	厘			
381	鐘	懂	懂	懂	懂	懂	懂	懂	懂	412	肘	百	評	依	匹	匹	匹	442	蜜	湊	衰	稔	脈	妙	耗	民	密	465	厘	厘	厘	厘	厘	厘	厘	厘			
382	懂	懂	懂	懂	懂	懂	懂	懂	懂	413	肘	百	評	依	匹	匹	匹	442	蜜	湊	衰	稔	脈	妙	耗	民	密	466	瑤	嶺	嶺	嶺	嶺	嶺	嶺	嶺			
383	懂	懂	懂	懂	懂	懂	懂	懂	懂	414	肘	百	評	依	匹	匹	匹	443	蜜	湊	衰	稔	脈	妙	耗	民	密	467	嶺	嶺	嶺	嶺	嶺	嶺	嶺	嶺			
384	懂	懂	懂	懂	懂	懂	懂	懂	懂	415	肘	百	評	依	匹	匹	匹	444	蜜	湊	衰	稔	脈	妙	耗	民	密	468	嶺	嶺	嶺	嶺	嶺	嶺	嶺	嶺			
385	貞	獨	獨	獨	獨	獨	獨	獨	獨	415	敏	瓶	瓶	瓶	瓶	瓶	瓶	445	蜜	湊	衰	稔	脈	妙	耗	民	密	469	嶺	嶺	嶺	嶺	嶺	嶺	嶺	嶺			
386	頓	頓	頓	頓	頓	頓	頓	頓	頓	415	敏	瓶	瓶	瓶	瓶	瓶	瓶	445	蜜	湊	衰	稔	脈	妙	耗	民	密	470	連	連	連	連	連	連	連	連			
386	な									415	府	不	付	埠	夫	富	富	布	442	名	命	明	盟	銘	鳴	姪	牝	冥	470	連	連	連	連	連	連	連	連		
387	謎	灘	捺	奈	那	乍	乍	乍	乍	416	膚	不	付	埠	夫	富	富	布	443	免	棉	綿	緬	緬	緬	緬	緬	471	露	芳	妻	魯	魯	魯	魯	魯			
388	歌	難	汝	奈	那	乍	乍	乍	乍	417	膚	不	付	埠	夫	富	富	布	444	免	棉	綿	緬	緬	緬	緬	緬	472	露	芳	妻	魯	魯	魯	魯	魯			
388	に									418	武	舞	舞	舞	舞	舞	舞	舞	444	孟	孟	孟	孟	孟	孟	孟	孟	473	露	芳	妻	魯	魯	魯	魯	魯			
388	に									419	伏	舞	舞	舞	舞	舞	舞	舞	445	孟	孟	孟	孟	孟	孟	孟	孟	474	露	芳	妻	魯	魯	魯	魯	魯			
388	に									420	伏	舞	舞	舞	舞	舞	舞	舞	446	孟	孟	孟	孟	孟	孟	孟	孟	475	露	芳	妻	魯	魯	魯	魯	魯			
389	虹	廿	二	尼	式	迹	句	句	肉	421	物	耐	腹	復	復	復	復	447	孟	孟	孟	孟	孟	孟	孟	孟	476	露	芳	妻	魯	魯	魯	魯	魯				
390	如	乳	乳	任	妊	忍	認	認	認	422	粉	耐	腹	復	復	復	復	448	孟	孟	孟	孟	孟	孟	孟	孟	477	露	芳	妻	魯	魯	魯	魯	魯				
390	ぬ〜の									422	粉	耐	腹	復	復	復	復	449	孟	孟	孟	孟	孟	孟	孟	孟	478	露	芳	妻	魯	魯	魯	魯	魯				
390	ぬ〜の									422	粉	耐	腹	復	復	復	復	449	孟	孟	孟	孟	孟	孟	孟	孟	479	露	芳	妻	魯	魯	魯	魯	魯				
391	祢	寧	葱	猫	熟	年	念	捻	襦	422	幣	平	弊	柄	並	蔽	丙	併	兵	447	矢	厄	役	也	夜	爺	耶	野	474	碗	驚	互	和	話	歪	臍	惑		
391	祢	寧	葱	猫	熟	年	念	捻	襦	423	幣	平	弊	柄	並	蔽	丙	併	兵	448	厄	役	也	夜	爺	耶	野	475	碗	驚	互	和	話	歪	臍	惑			











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 930SH

Weight	Approximately 110 g
Continuous Talk Time	Approximately 230 minutes (3G) Approximately 210 minutes (GSM)
Continuous Standby Time	Approximately 300 hours (3G) Approximately 270 hours (GSM) (handset closed)
Charging Time (power off)	AC Charger: Approximately 135 minutes In-Car Charger: Approximately 140 minutes
Dimensions (W x H x D)	Approximately 48 x 105 x 15.2 mm (handset closed, without protruding parts)
Maximum Output	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, with handset closed without calls or operations, in Standby with stable signals. In Japan (3G service area), the value is calculated with IP Service Setting, Decoration Call and S! Appli Communication set to **Off**.
- Talk Time/Standby Time may vary with environment, status, settings, etc.
- Display employs precision technology, however, some pixels may appear brighter/darker.

Handset Materials

Parts	Materials & Finishing
Housing (Display side, Keypad side)	Nylon resin/SUS (insert-molded), discontinuous deposition/UV painting
Housing (Display back hinge edges, Keypad side hinge), External Display window	ABS resin, discontinuous deposition/UV painting
Housing (Display back)	SUS, two-part coating, UV painting (SUS, electrodeposition coating for Silver)
Housing (Keypad side)	PC resin (with UV coating)/PET (with UV coating)
Housing (battery side), Battery Cover	ABS resin, UV painting
Display window, camera lens, Camera ornament panel (including Infrared Port)	Acrylic resin
Multi Selector, Center Key	Aluminum, anodized aluminum paint
Start Key, Power On/Off Key, Mail Key, Yahoo! Keitai Key, Shortcuts & A/a Key, Clear/Back Key, TV & Text Key, Multi Job & Manner Key, Keypad, Mobile Light	PC resin

Parts	Materials & Finishing
Side Keys	PC resin, deposition/UV painting
External Device Port Cover, Headphone Port Cover, Memory Card Slot Cover	PC resin/Elastomeric resin, discontinuous deposition/UV painting
Charging Terminals	SUS/Gold plating (sealer: nickel)
Screw (all pieces)	SWCH12A/Trivalent chromate, EPDM O-ring seal
USIM pin	Copper alloy/Gold plating (sealer: nickel)

Accessories

Battery

Voltage	3.7V
Battery Type	Lithium-ion
Capacity	710 mAh
Dimensions (W x H x D)	Approximately 37.7 x 46.9 x 4.2 mm (without protruding parts)



Basic Operations

■ Wallpaper/Standby Window

Standby Window	3 tags (100 characters each)
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■ Text Entry

User Dictionary	250 entries (5 per reading) Word: 15 characters Reading: 8 hiragana
Acquire Dictionary	5 dictionaries
Paste List	10 text strings
Recoverable Deleted Characters	15,360 characters (30,720 bytes)

■ Phone Book

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

■ Data Folder

Memory	100 MB (shared with Templates folder and S! Appli Library)
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Calling

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

Messaging

Memory	Received Msg.	10 MB or 3,000 messages
	Drafts	
	Sent Messages	5 MB (or 1,000 messages for Sent Messages)
	Unsent Messages	
	Templates	100 MB (shared with Data Folder and S! Appli Library)
PC Mail/S! Mail Subject	512 single-byte characters	
PC Mail/S! Mail Message	Approximately 30,000 single-byte characters	
SMS Message	160 single-byte alphanumerics	
Auto Resend	2 times	
Attachment	20 files or 300 KB	
Send Reservation	10 messages	
Signature	256 single-byte characters	
Recipient	20 numbers/addresses	
Folder	20 folders (20 sort keys each)	
Chat Folder	Memory	300 messages per folder
	Folder	10 folders (20 members each)

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

■ PC Mail Settings

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

Yahoo! Keitai & PC Site Browser

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



Digital TV

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

Camera & Imaging

Mobile Camera

Effective Pixels	8.0 Megapixels
Auto Shut-off Time	Approximately 3 minutes

Photo Camera

Zoom	1x - 5.1x	
Picture Size (W x H dots)	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
Scanner Image Size (W x H dots)	Mail L	240 x 320 (QVGA)
	Mail S	120 x 160 (QQVGA)
	Free, 1200 x 640, 480 x 1488, 1280 x 960	

File Format	JPEG
Memory	Approximately 40 files* (8M, High Quality)
File Name	yymmdd_hhmmss
Recording Distance	Macro: 10 cm
Long Exposure	Exposure time: 4 seconds
Background Save	3 files
Face Auto Focus	VGA or larger
Other	Use 40 KB or smaller transparent PNG files as Frames

*Approximate value for handset with no files.

Video Camera

Zoom	1x - 5.1x	
Record Size (W x H dots)	Extended Video	864 x 480 (Wide)
		640 x 480 (VGA)
		320 x 240 (QVGA)
		240 x 176 (HQVGA)
		176 x 144 (QCIF)
	For Message	128 x 96 (SubQCIF)
File Format	3GP	
Recording Time per Shot	Extended Video	Approximately 30 minutes* on Memory Card
	For Message	295 KB
File Name	yymmdd_hhmmss	
Recording Distance	1.5 m in good light	
Still Image Capture	3 images	
Recording Pause Supported	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)
		Alarm (480 x 208)
		Incoming Call (320 x 320)
Composite	Merge Panorama	Pictogram (96 x 96)
		VGA (480 x 640)
		QVGA (240 x 320)
Picture Editor	Retouch	Cut
		52 x 52 dots or larger JPEG/PNG images
		16 characters
Picture Editor	Correction	52 x 52 dots or larger JPEG/PNG images
		JPEG images between W 48 x H 64 dots and 240 x 320 dots



Media Player & S! Applications

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

Handy Extras

PIM/Lifestyle

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 September 2008.

Timer/Clock

Stopwatch	23 hours 59 minutes 59.9 seconds in 0.1-second increments Lap time: 4 records
Countdown Timer	60 minutes in 1-second increments
World Clock	City name: 16 characters

Doc./Rec.

Dictionary	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	
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 3 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		
S! Quick News	Special: 1 item News Flash: 1 item General: 4 items	
e-Books	Copy text strings of up to 20 characters	

Communication Services

S! Loop

S! Loop List	5 items
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S! Friend's Status

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

S! Circle Talk

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

Blog Tool

Blog Details	5 entries	
Blog Settings	Blog Menu	16 characters
	URL (Yahoo! Keitai)	1,024 characters
	URL (PC Site Browser)	1,024 characters
	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



Connectivity & File Backup

■ Infrared

Infrared Transfer	IrMC 1.1	
	Range	Within 20 cm
IrSS Transfer	Receive 2 MB or smaller JPEG images	

■ Bluetooth®

Communication System	Bluetooth® specification Ver. 2.0
Supported Profiles	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
Output	Bluetooth® Power Class 2
Range	Within 10 m
Device Search	16 devices
Pairing	32 devices
Device Name	16 characters
Printing	JPEG/PNG images

■ Memory Card

Backup File Name	yyymmddXX' (XX: 2 digits/alphabets)
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'yyymmdd for Contents Keys.

■ S! Addressbook Back-up

Log	10 Backup/Restore/ Synchronization records
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Network

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

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/svgt/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	S! Applications
			Hot Status Template	Template files in Data Folder (Status Templates)
			Message Templates	Graphic Mail templates in Templates folder
			Music	Music files in Data Folder (Music)
			Other Documents	Other files in Data Folder (Other Docs)
			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 Tones)
			Videos	Video files in Data Folder (Videos)
		Virtual Space	S! Town files	
	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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S! Appli

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■ Settings

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■ Settings

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🔊 Sound Output	P.6-12	
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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.14-6** "Troubleshooting" before contacting SoftBank for service or repairs.

If you cannot find solutions or solve problems, contact SoftBank Customer Center, Customer Assistance (**P.14-40**) 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 Customer Center, General Information (**P.14-40**). 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 Customer Centers

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

SoftBank 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

