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# 15

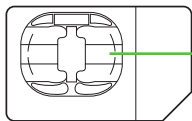
## Appendix



## 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.15-39).

### 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.15-39) 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.15-39) for recovery.

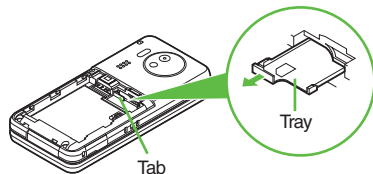


## USIM Card Installation

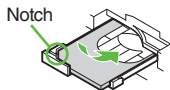
- Do not apply excessive force to insert/remove USIM Card.
- USIM Card must be inserted to use this handset.

### Inserting

- 1 Remove battery (P.15-4)
- 2 Using Tab, pull out Tray as shown until it clicks



- 3 Slide in USIM Card with IC chip facing up



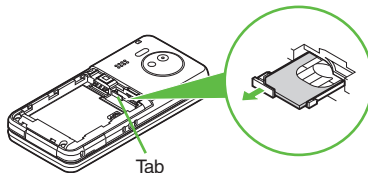
- 4 Push in Tray fully



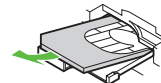
- Reinstall battery (P.15-4).

### Removing

- 1 Remove battery
- 2 Using Tab, pull out Tray as shown until it clicks



- 3 Lift and 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® and S! Town 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.

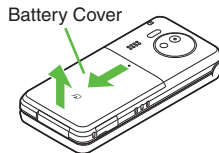


Li-ion00

- 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.

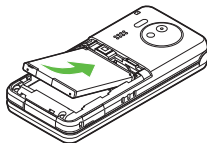
### Inserting & Removing

#### 1 Remove cover



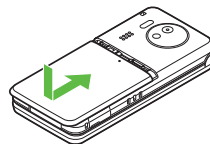
- Press and slide as shown.

#### 2 Insert battery



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

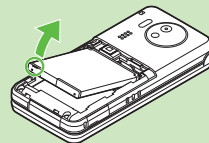
#### 3 Close cover



- 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

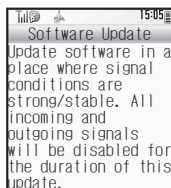
- Handset is disabled until update is complete. Update may take up to approximately 30 minutes.
- Update failure may disable handset. To reduce failure risk, make sure signal is strong and stable, and charge battery beforehand.
- Update will not start if other functions are in use. Before updating software (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.15-39).



# 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.1-19).
	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 831SH-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	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 **[7][0]** to insert **↵** (line break) in mail message text, Notepad, etc.

\*2 Press **[8][0]** 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	粘乃迺之	393	粘乃迺之	424	僻壁癖碧	449	ゆ									449	愉愈癒癒												
364	つ									393	腦膿農規	425	腦膿農規	426	片篇編編	450	愉愈癒癒	451	愉愈癒癒																				
365	つ									393	腦膿農規	426	片篇編編	451	愉愈癒癒	452	愉愈癒癒																						
366	つ									393	腦膿農規	426	片篇編編	452	愉愈癒癒	452	愉愈癒癒																						
366	て									394	波派派派	395	波派派派	426	保舖舖舖	452	悠憂憂憂																						
367	て									396	排排排排	397	排排排排	427	保舖舖舖	453	悠憂憂憂																						
368	て									397	排排排排	398	排排排排	428	保舖舖舖	454	悠憂憂憂																						
369	て									399	排排排排	400	排排排排	429	保舖舖舖	455	悠憂憂憂																						
370	て									401	排排排排	402	排排排排	430	保舖舖舖	456	悠憂憂憂																						
371	て									402	排排排排	403	排排排排	431	保舖舖舖	456	悠憂憂憂																						
372	て									403	排排排排	404	排排排排	432	保舖舖舖	457	悠憂憂憂																						
373	て									404	排排排排	405	排排排排	433	保舖舖舖	458	悠憂憂憂																						
373	と									405	排排排排	405	排排排排	436	保舖舖舖	458	悠憂憂憂																						
374	と									405	排排排排	405	排排排排	436	保舖舖舖	458	悠憂憂憂																						
375	と									405	排排排排	405	排排排排	436	保舖舖舖	458	悠憂憂憂																						
376	と									406	排排排排	407	排排排排	438	保舖舖舖	460	悠憂憂憂																						
377	と									407	排排排排	408	排排排排	439	保舖舖舖	461	悠憂憂憂																						
378	と									408	排排排排	409	排排排排	440	保舖舖舖	462	悠憂憂憂																						
379	と									409	排排排排	410	排排排排	440	保舖舖舖	463	悠憂憂憂																						
380	と									410	排排排排	411	排排排排	441	保舖舖舖	464	悠憂憂憂																						
381	と									411	排排排排	412	排排排排	441	保舖舖舖	465	悠憂憂憂																						
382	と									412	排排排排	413	排排排排	441	保舖舖舖	466	悠憂憂憂																						
383	と									413	排排排排	414	排排排排	442	保舖舖舖	467	悠憂憂憂																						
384	と									414	排排排排	415	排排排排	442	保舖舖舖	468	悠憂憂憂																						
385	と									415	排排排排	415	排排排排	442	保舖舖舖	469	悠憂憂憂																						
386	と									415	排排排排	415	排排排排	442	保舖舖舖	470	悠憂憂憂																						
386	な									415	排排排排	415	排排排排	444	保舖舖舖	470	悠憂憂憂																						
387	な									416	排排排排	417	排排排排	444	保舖舖舖	471	悠憂憂憂																						
388	な									417	排排排排	418	排排排排	444	保舖舖舖	472	悠憂憂憂																						
388	に									418	排排排排	419	排排排排	445	保舖舖舖	473	悠憂憂憂																						
388	に									419	排排排排	420	排排排排	445	保舖舖舖	473	悠憂憂憂																						
389	に									420	排排排排	421	排排排排	446	保舖舖舖	473	悠憂憂憂																						
390	に									421	排排排排	422	排排排排	447	保舖舖舖	473	悠憂憂憂																						
390	に									422	排排排排	422	排排排排	447	保舖舖舖	473	悠憂憂憂																						
390	ぬ									422	排排排排	422	排排排排	447	保舖舖舖	473	悠憂憂憂																						
390	ぬ									422	排排排排	422	排排排排	447	保舖舖舖	473	悠憂憂憂																						
391	ぬ									422	排排排排	422	排排排排	447	保舖舖舖	473	悠憂憂憂																						
391	ぬ									422	排排排排	422	排排排排	447	保舖舖舖	473	悠憂憂憂																						



Character Codes

Table with columns for First Three Digits and Last Digit, containing a grid of Chinese characters for each code combination. The table is organized into two main sections, each with its own set of column headers.












































## 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 831SH

<b>Weight</b>	Approximately 109 g
<b>Continuous Talk Time</b>	Approximately 230 minutes (3G) Approximately 210 minutes (GSM)
<b>Continuous Standby Time</b>	Approximately 310 hours (3G) Approximately 280 hours (GSM) (handset closed)
<b>Charging Time (power off)</b>	AC Charger: Approximately 135 minutes In-Car Charger: Approximately 140 minutes
<b>Dimensions (W x H x D)</b>	Approximately 49 x 105 x 15.9 mm (handset closed, 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, 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, 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, Keypad side)	Nylon resin/SUS (insert-molded)/UV painting
Housing (Display back, Keypad side hinge)	ABS resin/SUS (insert-molded)/UV painting
Housing (Display back, Keypad side, battery side)	ABS resin/UV painting
Display window, back panel, camera lens, Infrared Port, camera ornament panel	Acrylic resin
Center Key	Aluminum, anodized aluminum paint, spinning
Multi Selector	PC resin, solid printing (back)
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, Dictionary Key, Keypad	PC resin

Parts	Materials & Finishing
Side Keys	PC resin, mirror finish
External Device Port Cover, Headphone Port Cover, Memory Card Slot Cover	PC resin/Elastomeric resin/UV painting
Charging Terminals	SUS/Gold plating (sealer: nickel)
Screws (Display side)	SWCH16A/Black nickel plating
Screws (Keypad side, battery side)	SWCH16A/Trivalent chromate
USIM pin	Copper alloy/Gold plating (sealer: nickel)

## Accessory

### Battery

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



## Getting Started

## ■ Standby Shortcut

Savable Items	30 per sheet
---------------	--------------

## Basic Operations

## ■ 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)
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

## ■ 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

## Calling

Dialed Numbers	Dialed Numbers: 30 records Dialed Ranking: 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 alphanumeric	
Auto Resend	2 times	
Attachment	20 files or 1 MB*	
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	20 entries
	Permitted List	20 entries

\*Limit may be lower depending on message text, etc.

## ■ 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 &amp; 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	20 URLs	
RSS Feed	30 entries (60 KB per entry)	



## Digital TV

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

## Camera &amp; Imaging

## Mobile Camera

Effective Pixels	3.2 Megapixels
Auto Shut-off Time	Approximately 3 minutes

## Photo Camera

Zoom	1x - 25x	
Picture Size (W x H dots)	3M	1536 x 2048 (QXGA)
	Full HD	1080 x 1920
	2M	1200 x 1600 (UXGA)
	1.2M	960 x 1280 (Quad-VGA)
	VGA	480 x 640
	Wallpaper	240 x 400
	QVGA	240 x 320
QQVGA	120 x 160	
Scanner Image Size (W x H dots)	Free, 1200 x 640, 480 x 1488, 1280 x 960	
File Format	JPEG	
Memory	Approximately 260 files (at 3M, Normal Quality)	
File Name	yymmdd_hhmmss	
Shooting Distance	Macro: 10 cm	

Other	Use 40 KB or smaller transparent PNG files as Frames
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## Video Camera

Zoom	1x - 12x	
Record Size (W x H dots)	Extended Video	320 x 240 (QVGA)
		240 x 176 (HQVGA)
		176 x 144 (QCIF)
	For Message	128 x 96 (SubQCIF)
For Message		320 x 240 (QVGA)
		176 x 144 (QCIF)
		128 x 96 (SubQCIF)
File Format	3GP	
Recording Time per Shot	Extended Video	Approximately 30 minutes* on Memory Card
	For Message	1 MB or 295 KB
File Name	yymmdd_hhmmss	
Recording Distance	1.5 m in good light	

\*Varies with handset usage, location or settings.

## Editing Images

Picture Editor	Resize (W x H dots)	Wallpaper (240 x 400)
		Power On/Off (240 x 400)
		Incoming Call (160 x 160)
		Alarm (240 x 104)
		Pictogram (96 x 96)
		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 100 MB (shared with Templates folder and other folders in Data Folder)
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## Handy Extras

## ■ PIM/Lifestyle

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

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

## ■ Clocks/Gauges

<b>Stopwatch</b>	23 hours 59 minutes 59.9 seconds in 0.1-second increments Lap time: 4 records
<b>Countdown Timer</b>	99 minutes 59 seconds in 1-second increments
<b>World Clock</b>	City name: 16 characters

## ■ Doc./Rec.

<b>Document Viewer</b>	Supported Formats	PDF (.pdf) Microsoft® Excel® (.xls) Microsoft® Word (.doc) Microsoft® PowerPoint® (.ppt)
	File Size	10 MB
<b>Notepad</b>	500 entries (8,192 characters each)	
<b>Voice Recorder</b>	For Message	Approximately 10 minutes (message size limit: 1 MB) or 3 minutes (message size limit: 300 KB) per file
	Extended Voice	99 hours 59 minutes 59 seconds

<b>Scan Barcode (Continuous Mode)</b>	UPC/JAN	50 codes
	QR Code	16 codes
<b>Create QR Code</b>	Equivalent of 513 digits, 311 alphanumerics or 131 kanji	
<b>Scan Text</b>	256 characters	

## Entertainment &amp; Communication

## ■ Widget

<b>Savable Items</b>	6 widgets (S! Quick News & S! Friend's Status: 1, other: 5) 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
---------------------	---------

## ■ 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
<b>Blog Settings (Mail)</b>	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
	URL for Viewing	1,024 characters

## Data Folder

<b>Memory</b>	100 MB (shared with Templates folder and S! Appli Library)
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## Memory Card

<b>Backup File Name</b>	yymmddXX* (XX: 2 digits/alphanumerics)
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\*yymmdd for Contents Keys.



## Connectivity &amp; File Backup

## ■ Infrared

Infrared Transfer	IrMC 1.1	
	Range	Within 20 cm

## ■ S! Addressbook Back-up

Log	10 Backup/Restore/ Synchronization records
-----	-----------------------------------------------

## Network

Add Network	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\\_t/index\\_pdc.html](http://shweb.sharp.co.jp/svg_t/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)
			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	S! 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)	



## Menu List

## Messaging

Function	Refer to	
Received Msg.	P.4-10	
Create Message	P.4-4	
Retrieve New Msg.	P.4-21	
Drafts	P.4-27	
Templates	P.4-20	
Sent Messages	P.4-10	
Unsent Messages	P.4-27	
Chat Folder	P.4-13	
Server Mail Box	Mail List	P.4-21
	Retrieve All	P.4-22
	Delete All	P.4-25
	Mailbox Volume	P.4-27
Create New SMS	P.4-7	
Settings	Address Settings	P.4-3
	General Settings	P.4-28
	S! Mail Settings	P.4-30
	PC Mail Settings	P.4-16
	SMS Settings	P.4-32
	Speed Dial/Mail	P.4-18
Set Mail Group	P.4-14	
Memory Status	P.4-24	

## Settings: General Settings

	Function	Refer to
Send/ Compose	Delivery Report	P.4-28
	Reply to Settings	P.4-28
	Reply With Text	P.4-28
	Auto Reply	P.4-23
	Set Quick Reply	P.4-23
	Auto Resend	P.4-28
	Sending Status	P.4-28
Receive	Message Notice	P.4-29
	Link to Feeling	P.4-29
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Message List View	P.4-28	
Address View	P.4-28	
Received Msg. View	P.4-28	
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Auto Delete	Received Msg.	P.4-28
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## Settings: S! Mail Settings

Function	Refer to	
Message DL(Japan)	P.4-30	
Message DL(Abroad)	P.4-30	
Signature	P.4-18	
Picture Appearance	P.4-30	
Auto Play File	Pictures	P.4-30
	Sounds	P.4-30
Create Msg. Size	P.4-20	
Send File Settings	P.4-30	

## Settings: PC Mail Settings

Function	Refer to
PC Mail Account	P.4-16
PC Mail DL	P.4-31
Check New Mail	P.4-31
Word wrap	P.4-31

## Settings: SMS Settings

Function	Refer to
Expiry Time	P.4-32
Message Center	P.4-32
Char-code	P.4-32





Yahoo! Keitai	
Function	Refer to
Yahoo! Keitai	P.5-3
Bookmarks	P.5-7
Saved Pages	P.5-7
Enter URL	P.5-3
History	P.5-3
PC Site Browser	P.5-4
Browser Settings	P.5-11

### PC Site Browser

PC Site Browser		
Function	Refer to	
Homepage	P.5-4	
Bookmarks	P.5-7	
Saved Pages	P.5-7	
Enter URL	P.5-4	
History	P.5-4	
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Yahoo! Keitai	P.5-3	
PC Site Browser Settings	Font Size	P.5-11
	Scroll Settings	P.5-11
	Cursor Settings	P.5-11
	Downloads	P.5-11
	Memory Operation	P.5-9
	Security Settings	P.5-15
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	Reset Settings	P.5-15
	Warning Message	P.5-11
Zoom Factor	P.5-11	
Softkey Area	P.5-4	

### Browser Settings

Function	Refer to
Font Size	P.5-11
Scroll Unit	P.5-11
Cursor Settings	P.5-11
Downloads	P.5-11
Memory Operation	P.5-9
Security Settings	P.5-15
Download to	P.5-11
Initialized Browser	P.5-15
Reset Settings	P.5-15

### S! Appli

Function	Refer to
S! Appli Library	P.8-7
Osaifu-Keitai	P.9-13
Notification History	P.8-7
Settings	P.8-12
Information	P.8-12

### Settings

Function	Refer to	
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Synchronization	P.8-12	
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Screensaver	Switch On/Off	P.8-11
	Activation Time	P.8-11
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Set to Default	P.8-12	
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### TV

Function	Refer to
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TV Player	P.6-9
TV Link	P.6-13
TV Listing	P.6-7
Reservation List	P.6-10
Settings	P.6-12

### Settings

Function		Refer to
TV Alarm		P.6-15
Broadcast Data	Set Recording	P.6-14
	Image Location	P.6-14
	Notify Connection	P.6-12
	Location	P.6-12
	Manufacture Number	P.6-12
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Screen Size		P.6-5
Landscape Sets.		P.6-11
Sound Output		P.6-12
Calls & Alarms		P.6-12
TV Reserve Prior		P.6-15
Auto Exit	Auto Exit Time	P.6-12
	Close Action	P.6-12



## Camera

Function		Refer to
Photo Camera		P.7-4
Video Camera		P.7-5
Scan Barcode		P.9-26
Scan Card		P.9-28
Scan Text		P.9-29
Review		P.7-6
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	Picture Quality	P.7-15
	Advanced	P.7-15
Video Settings	Record Time/Size	P.7-16
	Microphone	P.7-16
	Advanced	P.7-15

## Photo Camera

Function		Refer to
Shooting Settings	Exposure	P.7-15
	Focus Setting	P.7-15
	White Balance	P.7-15
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	Continuous Shoot	P.7-7
	Camera Effects	P.7-8
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Scene		P.7-15
Picture Quality		P.7-15
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Help		P.7-15
Mobile Light		P.7-15

## Video Camera

Function		Refer to
Record Settings	Exposure	P.7-15
	Focus Setting	P.7-15
Display Size		P.7-16
Data Folder		P.7-6
Record Time/Size		P.7-16
Microphone		P.7-16
Video Quality		P.7-15
Self-timer		P.7-7
Settings		P.7-15
Help		P.7-15
Mobile Light		P.7-15

## Camera Settings: Advanced

Function		Refer to
Display Indicators		P.7-15
Shutter Sound		P.7-15
Save Pictures to		P.7-15
Auto Save		P.7-15
Set Send Key		P.7-15

## Video Settings: Advanced

Function		Refer to
Save Videos to		P.7-15
Auto Save		P.7-15

## Entertainment

Function		Refer to
Mobile Widget		P.10-2
S! Quick News		P.10-5
S! Information Channel/Weather	What's New	P.10-6
	Back Issue	P.10-6
	Registration/Cancel	P.10-6
	Get Latest Contents	P.10-18
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e-Book Viewer		P.10-7

## S! Quick News

Function		Refer to
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S! Loop List		P.10-17
Settings	Automatic Update	P.10-17
	Show Image	P.10-17
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## S! Information Channel/Weather: Weather Indicator

Function		Refer to
Weather		P.10-18
Manual Update		P.10-6
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	Weather Notif.	P.10-18
	Icon Update	P.10-18



## Tools

## ■ PIM/Lifestyle

Function	Refer to	
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Alarms	P.9-7	
Wakeup TV	P.9-9	
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Osaifu-Keitai	P.9-13	
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	Set Caller	P.9-17
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	For Silent Mode	P.9-36

## ■ PIM/Lifestyle: Osaifu-Keitai

Function	Refer to	
Lifestyle-Appli	P.9-13	
IC Card Settings	IC Card Status	P.9-35
	IC Card Lock	P.9-14
	Remote Lock	P.9-15
	Interface Settings	P.9-35
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## ■ Clocks/Gauges

Function	Refer to
Stopwatch	P.9-18
Countdown Timer	P.9-19
World Clock	P.9-20
Hour Minder	P.9-21
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## ■ Doc./Rec.

Function	Refer to	
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Search	P.2-14	
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	Scan Text	P.9-29
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## Data Folder

Function	Refer to
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DCIM	P.12-2
Ring Songs/Tones	P.9-25
S! Appli	P.8-7
Widget	P.10-2
Music	P.12-2
Videos	P.12-2
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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.15-39**) 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.15-39**).

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

