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17

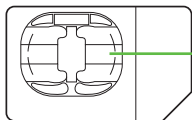
Appendix



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 Mobile is not liable for resulting damages.
- Keep the USIM Card IC chip clean; malfunction may result. Clean with soft dry cloth.
- Do not attach labels to USIM Card. Malfunction may result.

Important

- USIM Card is the property of SoftBank Mobile.
- USIM Card will be reissued for a fee if lost or damaged.
- Return USIM Card to SoftBank Mobile upon subscription termination.
- Returned USIM Cards are recycled.
- USIM Card specifications may change without prior notice.
- Back up USIM Card files. SoftBank Mobile 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.17-43).

USIM PIN

Four- to eight-digit code (**9999** by default); activate PIN Entry to restrict handset use.

PIN Lock

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

Canceling PIN Lock

- Contact SoftBank Mobile Customer Center, General Information (P.17-43) for your Personal Unblocking Key (PUK Code) and follow these steps:

Enter PUK Code ➡ ● ➡ **Enter new PIN** ➡ ● ➡ **Re-enter new PIN** ➡ ●

- 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.17-43) for recovery.



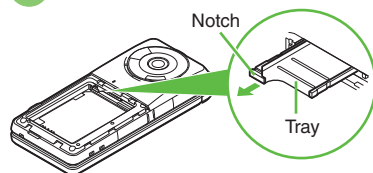
USIM Card Installation

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

Inserting

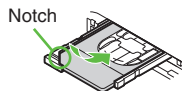
1 Remove battery (P.17-4)

2 Pull out Tray



- Use Notch to pull out Tray.

3 Slide in USIM Card with IC chip facing up



4 Push in Tray fully

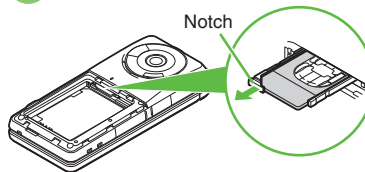


- Reinstall battery (P.17-4).

Removing

1 Remove battery

2 Pull out Tray



- Use Notch to pull out Tray.

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 and BookSurfing® 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.
- Close Battery Cover firmly. Debris trapped between Cover and base may expose handset to liquid/dust.
- To maintain water/dust resistance, close Battery Cover properly.
- Battery is not waterproofed or dustproofed.

Lithium-ion Battery

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

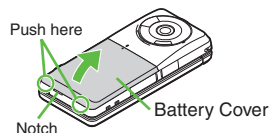


Li-ion00

- 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.

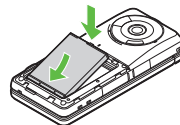
Inserting & Removing

1 Remove Battery Cover



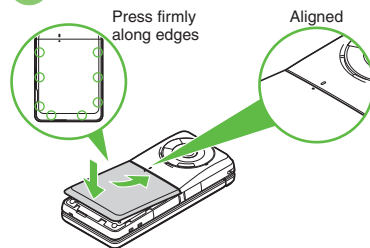
- Use Notch to open Cover. Push Cover up as shown, then lift to remove it.

2 Insert battery



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

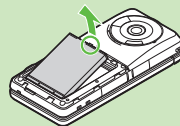
3 Close Battery Cover



- Align mark on Cover with Recorder Microphone, then press Cover firmly.

Removing

- Power handset off and lift battery as shown.



Software Update

Check for firmware updates and download as required.

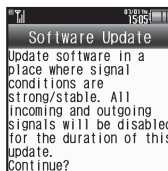
Precautions

- 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 Mobile 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** ➔  ➔ **Software Update** ➔ 
- 2 **Software Update** ➔ 



- Follow onscreen instructions.

Update Result

In , **Update Result** ➔ 

Scheduled Update (Japanese)

SoftBank Mobile sends update notice via SMS; read and change preset update schedule as needed. A 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, power handset off, reinsert battery, then restart it. If it still does not restart, contact SoftBank Mobile Customer Center, Customer Assistance (P.17-43).



Cleaning Handset

Washing Handset

Wipe off dirt, sand, beverage, etc., gently with cloth. Then with Battery Cover closed, hold handset approximately 10 cm below faucet or shower head and wash with low-pressure tap water (6 liters/min. or lower) at normal temperature (5°C - 35°C). Wash with your hands, taking care not to open Covers; do not use a brush or sponge. Dry handset before use.

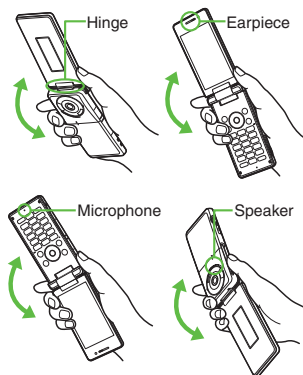
- Before washing handset, make sure that Battery Cover and Port Cover are closed firmly.
- Do not use a washing machine or ultrasonic cleaner.
- Do not place handset in a microwave oven to dry it. Battery/handset may leak, burst, overheat or ignite; may cause malfunction, accident or injury.
- Do not dry handset by exposing it to extreme heat (e.g., hot air from dryers, etc.); may cause warping, discoloration or damage.

Drying Handset

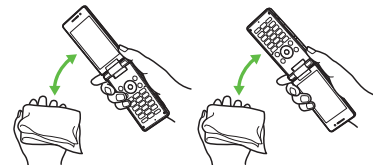
Dry these parts/areas after washing handset:

Hinge	Earpiece
Microphone	Speaker

- 1 Wipe handset surface with dry cloth
- 2 Holding hinge firmly by its sides, shake handset about 20 times



- 3 Pat against dry cloth to remove moisture from grooves



- 4 Leave handset on dry cloth for approximately 2 - 3 hours at room temperature

Do Not Use Wet Handset

- Voice quality may be affected, or moisture may transfer to clothes, bag, etc.
- Moisture may short-circuit External Device Port and HDMI Port.
- Exposure to cold may freeze moisture causing malfunction.



Troubleshooting

General

Problem	Possible Cause	Solution
Handset won't power 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.17-4).
Operation is restricted after power on	Is Switch On/Off in PIN Entry <i>On</i> ?	If <i>On</i> , PIN is required. Enter PIN according to onscreen prompt.
Insert USIM Card appears	USIM Card may not be properly inserted.	Power handset 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 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.
Operation is restricted	Keypad Lock may be active.	Cancel Keypad Lock (P.2-20).
	Function Lock may be active.	Cancel Function Lock (P.13-2).

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.13-3).
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 945SH-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 Lights flash 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 Desktop Holder or 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.17-4).
	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.



Text Entry Key Assignments

Key	Kanji (Hiragana) [Double-byte]	Katakana [Double & Single-byte]	Alphanumerics [Double & Single-byte]	Numbers [Single-byte]	Character Codes
① ㇰ	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 ㇱ	かきくけこ	カキクケコ	ABCabc2	2	2
③ ㇴ	さしすせそ	サシスセソ	DEFdef3	3	3
④ ㇵ	たちつてとっ	タチツテトッ	GHIghi4	4	4
⑤ ㇶ	なにぬねの	ナニヌネノ	JKLjkl5	5	5
⑥ ㇷ	はひふへほ	ハヒフヘホ	MNOmno6	6	6
⑦ ㇸ	まみむめも	マミムメモ	PQRSpqrs7	7	7
⑧ ㇹ	やゆよやゆよ	ヤユヨヤユヨ	TUVtuv8	8	8
⑨ ㇺ	らりるれろ	ラリルレロ	WXYZwxyz9	9	9
⑩ ㇻ	わをんー ° °	ワヲンー ° ° _1	0	0	0
✖ ㇼ	Log, Pictogram List (double-byte), Symbol List ³				✕ + P (pause) ? - ²
Ⓐ ㇽ	.,. ♯ (line break) ? ! □ (space)		.. ♯ (line break) ?! □ (space)	#	

¹ - is available only in Single-byte Katakana mode.

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 ⁴	Cursor up/down; (line break) when is pressed at the end of text			
	Cursor left/right				
	Switch entry modes (except during conversion)				
	Search Word ⁵	_____			
 (Long)	Toggle Personal Mode ⁵	_____	Toggle Personal Mode ^{5,6}	_____	
	Toggle case (for some characters)			_____	
	_____		Toggle mode (upper/ lower and lower case)		
	Delete one character				
 (Long)	Cancel conversion	_____	Cancel conversion ⁶	_____	Delete code
 (Long)	Delete before or after cursor				
	Recover characters deleted with				
	Re-convert ⁷	_____	Re-convert ^{6, 7}	_____	
	Confirm/Done				
	Non-Predictive suggestions ⁵	_____			
	Hiragana to Katakana/ Alphanumeric Conversion ⁵	_____			
 (Long)	Single Kanji Conversion ⁵	_____			

⁴Cursor moves up/down except during conversion.⁵Available during conversion.⁶Available only in Single-byte Alphanumerics mode.⁷Press 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	.	。	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				.	。					

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

*2 Press   to toggle upper and lower case modes.

■ 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

■ 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				.	。					



Character Code List

First Three Digits	Last Digit										First Three Digits	Last Digit										First Three Digits	Last Digit									
010	0	1	2	3	4	5	6	7	8	9	043	0	1	2	3	4	5	6	7	8	9	080	0	1	2	3	4	5	6	7	8	9
011	!	"	#	\$	%	&	'	(	)	?	044	ぞ	と	ど	な	ぢ	ぬ	つ	は	て	ば	081	一	一	一	一	一	一	一	一	一	一
012	~	^	^	^	^	^	^	^	^	^	045	ひ	び	ふ	ぶ	め	べ	べ	べ	べ	べ	082	一	一	一	一	一	一	一	一	一	一
013	/	~	^	^	^	^	^	^	^	^	046	ほ	ま	み	む	め	め	め	め	め	め	083	一	一	一	一	一	一	一	一	一	一
014	-	"	(	)	[	]	{	}			047	ゆ	よ	ま	り	め	れ	れ	れ	れ	れ	083	一	一	一	一	一	一	一	一	一	一
015	<	>	《	》	「	」	【	】			048	あ	え	を	ん							130	①	②	③	④	⑤	⑥	⑦	⑧	⑨	
016	+	-	×	÷	=	≠	<	>	≧	≦	050	ア	カ	イ	ウ	エ	オ					131	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	
017	≧	∞	∴	♀	♂	°	′	″	℃	¥	051	オ	カ	イ	ウ	エ	オ					132	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙
018	\$	¢	£	¥	%	#	&	*	@	☆	052	コ	サ	ジ	ス	ツ	ゼ					133	㉚	㉛	㉜	㉝	㉞	㉟	㊱	㊲	㊳	㊴
019	★	●	○	◐	◑	◒	◓	◔	◕	◖	053	ゴ	タ	チ	ヂ	ズ	ツ	デ				134	㊴	㊵	㊶	㊷	㊸	㊹	㊺	㊻	㊼	㊽
020	◆	◈	◉	◊	△	▽	▼	※	〒		054	ト	ド	ニ	フ	メ	ハ					135	㊾	㊿	㊿	㊿	㊿	㊿	㊿	㊿	㊿	㊿
021	→	←	↑	↓	⇄	⇅	⇆	⇇	⇈		055	ヒ	ビ	フ	ブ	メ	ハ					136	㊿	㊿	㊿	㊿	㊿	㊿	㊿	㊿	㊿	㊿
022	⇉	⇊	⇋	⇌	⇍	⇎	⇏	⇐	⇑		056	ホ	ボ	マ	ミ	ム	ヘ					137	㊿	㊿	㊿	㊿	㊿	㊿	㊿	㊿	㊿	㊿
023	⇒	⇓	⇔	⇕	⇖	⇗	⇘	⇙	⇚		057	ユ	ヨ	リ	ル	レ	ワ					138	㊿	㊿	㊿	㊿	㊿	㊿	㊿	㊿	㊿	㊿
024	⇛	⇜	⇝	⇞	⇟	⇠	⇡	⇢	⇣		058	ヰ	ヱ	ヲ	ン	ヴ	ヵ					139	㊿	㊿	㊿	㊿	㊿	㊿	㊿	㊿	㊿	㊿
026	∠	⊥	(	∂	∇	≡	≧	≦	√		060	A	B	Γ	Δ	E	Z	H	Θ	I		160	垂	唾	娃	阿	哀	愛	挨	達	逢	
027	∞	∞	∴	∴	∴	∴	∴	∴	∴		061	K	A	M	N	Ω	O	P	Σ	T		161	莖	菰	穉	惡	握	渥	旭	葦	鯨	
028	∞	∞	∴	∴	∴	∴	∴	∴	∴		062	Υ	φ	X	ψ	Ξ	Ω					162	梓	压	幹	撥	宛	姐	虹	給	絢	
029	∞	∞	∴	∴	∴	∴	∴	∴	∴		063	θ	ι	κ	λ	μ	ν	ξ	ο	π		163	鮎	或	粟	裕	安	庵	按	暗	案	
031											064	σ	τ	υ	φ	χ	ψ	ω			164	鞍	杏									
032	4	5	6	7	8	9					065																					
033	A	B	C	D	E	F	G				070	A	B	C	D	E	F	G	H	I		164	威	以	伊	依	偉	圉	夷	委		
034	H	I	J	K	L	M	N	O	P	Q	071	И	Й	К	Л	М	Н	О	П	Р	С	165	移	維	緯	胃	姜	衣	謂	達	為	異
035	R	S	T	U	V	W	X	Y	Z		072	T	У	Ф	Х	Ц	Ч	Ш	Ъ	Ы		166	井	亥	域	育	郁	磯	一	壹	溢	
036	a	b	c	d	e	f	g	h	i	j	073	б	в	г	д	е	ё	ж	з	и	й	167	稻	茨	芋	鰯	允	印	咽	員	因	
037	f	g	h	i	j	k	l	m	n	o	074										a	168	引	飲	淫	胤	蔭					
038	p	q	r	s	t	u	v	w	x	y	075	б	в	г	д	е	ё	ж	з	и	й	169	赫	較	郭	隔	隔	隔	隔	隔	隔	
039	z										076	к	л	м	н	о	п	р	с	т	у	170	院	陰								
040	あ	が	き	く	け	こ					077	ф	х	ц	ч	ш	щ	ъ	ы	ь	э											
041	か	が	き	く	け	こ					078	ю	я									170										
042	さ	ざ	し	じ	す	せ	そ																									



[illegible]

[illegible]

[illegible]

[illegible]

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

Other

	Heavy rain
	Gale
	Notification



Specifications

SoftBank 945SH

Weight*	124 g (140 g with battery)
Continuous Talk Time*	210 minutes (3G) 210 minutes (GSM)
Continuous Standby Time*	370 hours (3G) 350 hours (GSM) (clamshell closed)
Continuous TV Reception Time*	4.5 hours
Charging Time (power off)*	AC Charger: 140 minutes In-Car Charger: 140 minutes
Dimensions (W x H x D)*	51.5 x 112.5 x 16.9-18.2 mm (clamshell closed, without protruding parts)
Maximum Output	0.25 W (3G) 2.0 W (GSM)

*Approximate value.

- Above values calculated with Backlight Brightness set to **Level:2**.
- Continuous Talk Time is an average measured with a new, fully charged battery, in strong signal conditions without moving handset.
- Continuous Standby Time is an average measured with a new, fully charged battery, with clamshell closed without calls or operations, in strong signal conditions without moving handset. In Japan (3G service area), the value is calculated with IP Service Setting and Mobile Widget Auto Refresh set to **Off**.

- Continuous TV Reception Time is measured with a new, fully charged battery, with AV Mode (default: **Link to Genre**) set to **Standard** (Brightness: **2**, Tone: **Normal**) and Smooth Mode (default: **On**) set to **Off** in Viewer position with Headphones connected to External Device Port, until battery runs low (10% of capacity).
- Talk Time/Standby Time/TV Reception 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, battery side), Battery Cover	Nylon resin/Acrylic UV painting
Housing (back)	Aluminum/Anodized aluminum (Acrylic UV painting for White)
Display window, lens cover	Acrylic resin
Sub Display panel	PC resin & UV hard coating

Parts	Materials/Finishing
Multi Selector (Cursor Keys), Center Key, Mail Key, Shortcuts & Spinguru Menu Key, Dictionary Key, Multi Job & Manner Key, Yahoo! Keitai Key, TV & HDMI Key, Camera Key, key ornament sheets (Keypad side), camera ring, Clear/Back Key, Start & Rakutomo Link Key, Keypad, ✕ Key, Power On/Off & End Key, # Key	UV curing resin
Side Keys (Volume Up Key, Volume Down Key, Keypad Lock & Shutter Key)	PC resin/Discontinuous deposition, acrylic UV painting
Camera ornament	PC resin/UV hard coating/Tin deposition & overprinting (back)
Camera ornament (Infrared Port)	PC resin/UV hard coating/infrared permeable printing (back)
HDMI Port Cover, External Device Port Cover	Elastomeric resin/Acrylic UV painting
Battery	PC & ABS resin
Charging Terminals	SUS/Gold plating (sealer: nickel)
Screws	SWCH16A/Black Ni plating
USIM pins	Copper alloy/Gold plating (sealer: nickel)



Accessories

■ Battery

Voltage	3.7V
Battery Type	Lithium-ion
Capacity	800 mAh
Dimensions (W x H x D)*	34.2 x 47.1 x 4.6 mm (without protruding parts)

*Approximate value.

■ Desktop Holder

Input Voltage/Current	DC 5.4V/700 mA
Output Voltage/Current	DC 5.4V/700 mA
Charging Temperature	5°C to 35°C
Dimensions (W x H x D)*	130 x 28 x 62 mm

*Approximate value.

Basic Operations

■ Standby Shortcut

Standby	16 (shared with widgets)*
Icon View	100 (16 per page including widgets)

Excluding S! Quick News & S! Friend's Status, Pedometer and Household Accounts.

Universal Operations, Etc.

■ Text Entry

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

Call Log Records	Dialed: 30 Dialed Ranking: 10 Received: 30
Answer Phone/Record Caller Voice	20 messages or 90 seconds
Auto Answer List	10 numbers
Speed Dial/Mail	100 numbers/addresses
Rakutomo Link	10 numbers/addresses

Messaging

Memory	Received Msg.	10 MB or 3,000 messages
	Drafts	5 MB (or 1,000 messages between Drafts, Sent Messages and Unsent Messages)
	Sent Messages	
	Unsent Messages	
	Templates	104 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 2 MB*	
Send Reservation	10 messages	
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)	
Auto Reply	20 numbers/addresses Reply Message: 256 single-byte characters per mode	
Sort Spam Mail	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



Internet		
Download (Yahoo! Keitai)	500 KB per page	
	10 MB (100 MB via Keitai Wi-Fi) for progressive downloads	
Download (PC Site Browser) ¹	JPEG Images	3 MB
	Flash® Files	2 MB
Download (Direct Browser) ¹	JPEG Images	5,000 KB
	Flash® Files	2 MB
History	300 pages for Yahoo! Keitai	
	300 pages between PC Site Browser and Direct Browser	
URL Entry Log	10 URLs	
Bookmarks ² & Saved Pages	100 pages for Yahoo! Keitai	
	100 pages between PC Site Browser and Direct Browser	
Tab	5 tabs at one time	
Input Memory	20 entries	
Streaming History	20 URLs	
RSS Feeds	30 entries (60 KB per entry)	

¹ 1 MB each for files other than JPEG images and Flash® files. (Some media files are playable beyond 1 MB.)

² Folders are counted as pages.

Digital TV		
Recorded File	ISDB-T mobile Video profile (SD-Video standard)	
	Handset	Approximately 30 minutes
Recording Time (example)	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 (24 hours each on 1 GB or larger Memory Card)	

Camera & Imaging

Mobile Camera

Effective Pixels	12.1 Megapixels
Auto Shut-off Time	Approximately 3 minutes

Photo Camera

Zoom	1x - 25x	
Picture Size (W x H dots)	12M	3000 x 4000
	8M	2448 x 3264
	5M	1944 x 2592
	3M	1536 x 2048
	Full HD	1080 x 1920
	Wallpaper	480 x 854
	VGA	480 x 640
	QVGA	240 x 320
Scanner Image Size (W x H dots)	Free, 1200 x 640, 480 x 1488, 1280 x 960	
File Format	JPEG	
Memory	Approximately 25 files (at 12M, High Quality) on handset with no other files	

File Name	yymmdd_hhmmss
Shooting Distance	Macro: 10 cm
Background Save	3 files
Portrait Auto Focus	VGA or larger

Video Camera

Zoom	1x - 5.7x	
Picture Size (W x H dots)	HD	1280 x 720
	Wide	864 x 480
	VGA	640 x 480
	QVGA	320 x 240
	QCIF	176 x 144
File Format	3GP	
Recording Capacity per Shot	Approximately 30 minutes* on Memory Card (with HD Video Camera at Normal quality)	
	Video Camera for Mail	2 MB or 295 KB
File Name	yymmdd_hhmmss	
Recording Distance	1.5 m in good light	
Still Image Capture	3 images	
Recording Pause Supported	HD Video Camera, Pro Auto Video Camera	

*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) Mail Art (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	JPEG images between W 48 x H 64 dots and 240 x 320 dots
	Panorama	

Video & Music

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)	
All Music List	Music	Shows up to 350 files each
	Chaku-Uta®	
	WMA	Shows up to 999 files
	SD AUDIO	

■ S! Applications & Widgets

■ S! Applications

Memory	100 items or 104 MB (shared with Messaging Templates folder and other folders in Data Folder)
Remote Control	Approximately 5 m

■ Mobile Widget

Standby	6 widgets (S! Quick News & S! Friend's Status: 1, Pedometer: 1, Household Accounts: 1, others: 3)
Icon View (40 pages)	Handset widgets: 100 Memory Card widgets: 100 (16 per page including Standby Shortcuts)

Handy Extras

■ PIM/Life

Calendar ¹ /Tasks	Schedule: 1,000 entries 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
Household Accounts	3,285 entries ² (9,999,999 yen each)
Calculator	999,999,999,999
Expenses Memo	50 entries (999,999.99 yen each) per list x 3 lists
Osaifu-Keitai®	Remote Lock password: 5 - 16 single-byte alphanumerics

¹ Preset holidays are based on Japanese calendar as of May 2010.

² Limit may be lower depending on the number of items in each entry.

■ 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 Data	Steps: 99,999 Walking 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 Hourly view: 9,999 steps per hour Daily view: 99,999 steps per day
	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 Distance: 999,999.9 km Fat burned: 999,999.9 g
	Average	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 20 minutes (message size limit: 2 MB) or 3 minutes (message size limit: 300 KB) 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

Savable Items	1 item for Special
	5 items between News Flash and General

■ e-Books

Text Copy	20 characters
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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 Title	16 characters	
Blog Settings (Mail)	Email Address	128 characters
	Title	32 characters
	Text	128 characters
	Picture Size	S (320 x 320)
		M (640 x 640)
Blog Settings (Yahoo! Keitai, PC Site Browser & Direct Browser)	URL for Posting	1,024 characters
	URL for Viewing	L (1024 x 1024)
		Send

Data Folder

Memory	104 MB (shared with Messaging Templates folder and S! Appli Library)
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Memory Card

Backup File Name	yymmddXX* (XX: 2 digits/letters)
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*yymmdd for Contents Keys.

Connectivity & File Backup

■ Wi-Fi

Profile	10 entries
Authentication Method	Open System, Shared Key, WPA-PSK, WPA2-PSK, WPA/WPA2-PSK Auto
Encryption Method	No Authentication, WEP, TKIP, AES, TKIP/AES Auto
WEP Key	4 keys

■ Infrared

Infrared Transfer	IrMC 1.1	
	Range	Within 20 cm
IrSS Transfer (JPEG images)	Receive 2,500 KB or less; send 5,000 KB or less (after resizing)	

■ Bluetooth®

Communication System	Bluetooth® specification Ver. 2.1
Supported Profiles	Headset Profile
	Hands-Free Profile
	Dial-Up Networking Profile
	Object Push Profile
	File Transfer Profile
Output	Basic Imaging Profile
	Advanced Audio Distribution Profile
	Audio/Video Remote Control Profile
Range	Bluetooth® Power Class 2
Device Search	Within 10 m
Pairing	16 devices
Device Name	32 devices
Printing	16 characters
	JPEG/PNG images

■ S! Addressbook Back-up

Log	10 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/en/>
- **S! Addressbook Back-up**
http://mb.softbank.jp/en/price_plans/basic_option.html
- **Messaging Basics**
http://mb.softbank.jp/en/customer_support/mail.html
- **Custom Handset Address**
<https://www.email.softbank.ne.jp/help/e/address.html>
- **Yahoo! Keitai**
http://mb.softbank.jp/en/customer_support/web.html
- **Ichi Navi**
http://mb.softbank.jp/en/price_plans/basic_option.html
- **Secure Remote Lock**
http://mb.softbank.jp/en/price_plans/basic_option.html
- **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/>
- **Compatible Blu-ray Disc Recorders**
 From PC (Japanese)
http://www.sharp.co.jp/support/av/dvd/doc/info_cellular.html
- **SVG-T**
 From Handset (Japanese)
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/>
- **SOFTBANK TELECOM Corp. (BB mobilepoint)**
 From PC
<http://tm.softbank.jp/english/consumer/wlan/index.html>
- **ケータイ daSH**
 From PC (Japanese)
<http://www.sharp.co.jp/k-tai/>
- **HDMI Cable Compatibility**
 From PC (Japanese)
<http://k-tai.sharp.co.jp/peripherals/guide.html>



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
			Bookmark backup files
			Character
			PNG files in Data Folder (Character)
			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)
			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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Messaging

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	Condition(Auto)	P.5-36
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	View Setting	P.5-36
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■ PC Site Browser

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PC Site Browser Settings

■ Direct Browser

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Set Direct Browser

■ Browser Settings

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S! Appli

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■ Settings

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Entertainment

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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.17-7** "Troubleshooting" before contacting SoftBank Mobile for service or repairs.

If you cannot find solutions or solve problems, contact SoftBank Mobile Customer Center, Customer Assistance (**P.17-43**) 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.17-43**).

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

- SoftBank Mobile is not liable for any damages resulting from use of this product.
- SoftBank Mobile 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

