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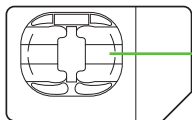
Appendix



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 user-settable Security Codes for USIM Card; both are **9999** by default.

PIN	Security Code used for PIN Entry 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.

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.

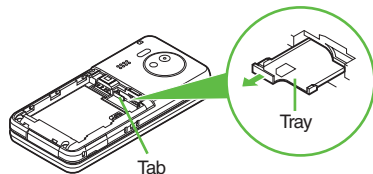


USIM Card Installation

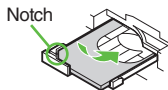
- Do not apply excessive force to insert/remove USIM Card.
- USIM Card must be inserted to use this handset.

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



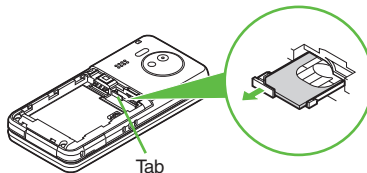
- 4 Push in Tray fully



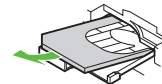
- Reinstall battery (P.15-4).

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 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.

Lithium-ion Battery

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

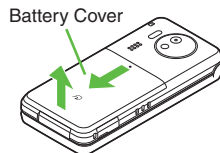


Li-ion00

- 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.

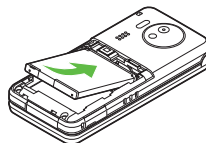
Inserting & Removing

1 Remove cover



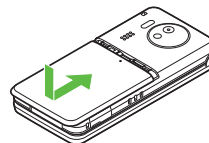
- Press and slide as shown.

2 Insert battery



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

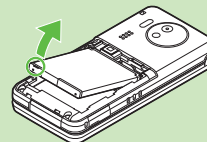
3 Close cover



- 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

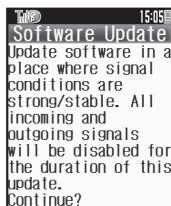
- Handset is disabled until update is complete. Update may take up to approximately 30 minutes.
- Update failure may disable handset. To reduce failure risk, make sure signal is strong and stable, and charge battery beforehand.
- Update will not start if other functions are in use. Before updating software (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 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.1-19).
	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 831SH s-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.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
Battery Time seems shorter than usual	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	PQRSpqrs7	7	7
8	やゆよゃゅょ	ヤユヨャュョ	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)		、。 ♯ (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				
	Switch entry modes (except during conversion) or toggle Personal Mode (during conversion)				
	Toggle case (for some characters)			_____	
	_____	Toggle mode (upper/ lower and lower case)			
	Delete one character				
	Cancel conversion	_____	Cancel conversion ⁶	_____	Delete code
 (Long)	Delete before or after cursor				
	Recover characters deleted with				
	Re-convert ⁷	_____	Re-convert ^{6, 7}	_____	
	OK				
	Phonetic Conversion	_____			
	Hiragana to Katakana/ Alphanumeric Conversion	_____			

⁴Cursor moves up except during conversion.⁵Cursor moves down except during conversion.⁶Available only in single-byte alphanumeric entry.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	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	ゝ	ゞ	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				ゝ	ゞ					

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

*2 Press   to toggle upper and lower case modes.



Character Code List

[illegible]

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	6	7	8	9																																																																																																																																																																																																																																																																																																																																																																																																																													
223	舊業巾	鄉曲	鏡曲	響極	驚初	仰拜	凝虔	曉均	257	224	業巾	錦茵	欽諫	欽諫	驚初	仰拜	凝虔	曉均	258	225	鄉曲	鏡曲	響極	驚初	仰拜	凝虔	曉均	259	226	錦茵	欽諫	欽諫	驚初	仰拜	凝虔	曉均	260	227	欽諫	欽諫	驚初	仰拜	凝虔	曉均	261	228	驚初	仰拜	凝虔	曉均	262	229	仰拜	凝虔	曉均	263	230	凝虔	曉均	264	231	曉均	265	232	曉均	266	233	曉均	267	234	曉均	268	235	曉均	269	236	曉均	270	237	曉均	271	238	曉均	272	239	曉均	273	240	曉均	274	241	曉均	275	242	曉均	276	243	曉均	277	244	曉均	278	245	曉均	279	246	曉均	280	247	曉均	281	248	曉均	282	249	曉均	283	250	曉均	284	251	曉均	285	252	曉均	286	253	曉均	287	254	曉均	288	255	曉均	289	256	曉均	290	257	曉均	291	258	曉均	292	259	曉均	293	260	曉均	294	261	曉均	295	262	曉均	296	263	曉均	297	264	曉均	298	265	曉均	299	266	曉均	300	267	曉均	301	268	曉均	302	269	曉均	303	270	曉均	304	271	曉均	305	272	曉均	306	273	曉均	307	274	曉均	308	275	曉均	309	276	曉均	310	277	曉均	311	278	曉均	312	279	曉均	313	280	曉均	314	281	曉均	315	282	曉均	316	283	曉均	317	284	曉均	318	285	曉均	319	286	曉均	320	287	曉均	321	288	曉均	322	289	曉均	323	290	曉均	324	291	曉均	325	292	曉均	326	293	曉均	327	294	曉均	328	295	曉均	329	296	曉均	330	297	曉均	331	298	曉均	332	299	曉均	333	300	曉均	334	301	曉均	335	302	曉均	336	303	曉均	337	304	曉均	338	305	曉均	339	306	曉均	340	307	曉均	341	308	曉均	342	309	曉均	343	310	曉均	344	311	曉均	345	312	曉均	346	313	曉均	347	314	曉均	348	315	曉均	349	316	曉均	350	317	曉均	351	318	曉均	352	319	曉均	353	320	曉均	354	321	曉均	355	322	曉均	356	323	曉均	357	324	曉均	358	325	曉均	359	326	曉均	360	327	曉均	361	328	曉均	362	329	曉均	363	330	曉均	364	331	曉均	365	332	曉均	366	333	曉均	367	334	曉均	368	335	曉均	369	336	曉均	370	337	曉均	371	338	曉均	372	339	曉均	373	340	曉均	374	341	曉均	375	342	曉均	376	343	曉均	377	344	曉均	378	345	曉均	379	346	曉均	380	347	曉均	381	348	曉均	382	349	曉均	383	350	曉均	384	351	曉均	385	352	曉均	386	353	曉均	387	354	曉均	388	355	曉均	389	356	曉均	390	357	曉均	391	358	曉均	392	359	曉均	393	360	曉均	394	361	曉均	395	362	曉均	396	363	曉均	397	



[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

Disaster

	Heavy rain
	Gale

Information

	Notification
---	--------------



Specifications

SoftBank 831SH s

Weight	Approximately 109 g
Continuous Talk Time	Approximately 230 minutes (3G) Approximately 210 minutes (GSM)
Continuous Standby Time	Approximately 310 hours (3G) Approximately 280 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 49 x 105 x 15.9 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, 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)	Nylon resin/SUS (insert-molded)/UV painting
Housing (Display back)	ABS resin/SUS (insert-molded)/UV painting
Housing (Keypad back, Keypad side), Battery Cover	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)
Mail Key, Yahoo! Keitai Key, A/a Key, TV & Text Key, Start Key, Back Key, Power On/Off Key, Keypad, Dictionary Key, Multi Job & Manner Key	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

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)



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 Encyclopedia of Daily Health Care: Approximately 490 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
Set Receiving	Account Name	20 characters
	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	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 & 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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*Approximate value for handset with no files.

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)
		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

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 February 2009.

■ Clocks/Gauges

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

■ Doc./Rec.

Document Viewer	Supported Formats	PDF (.pdf) Microsoft® Excel® (.xls) Microsoft® Word (.doc) Microsoft® PowerPoint® (.ppt)
	File Size	10 MB
Notepad	500 entries (8,192 characters each)	
Voice Recorder	For Message	Approximately 10 minutes (message size limit: 1 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 & Communication

■ Widget

Savable Items	6 widgets (S! Quick News & S! Friend's Status: 1, other: 5) per sheet x 4 sheets
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■ S! Quick News

Savable Items	Special: 1 item News Flash: 1 item General: 4 items
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■ 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 Menu	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) L (1024 x 1024) Send
Blog Settings (Yahoo! Keitai & PC Site Browser)	URL for Posting	1,024 characters
	URL for Viewing	1,024 characters

Data Folder

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

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



Connectivity & File Backup

■ Infrared

Infrared Transfer	IrMC 1.1	
	Range	Within 20 cm

■ 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

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

■ 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/>

■ 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/>



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)
			Widget
			Widget files in Data Folder (Widget)
			WMAudio
			WMA files for Media Player (WMA)
		SH_Folder	Application management files
		Utility	Backup files (Phone Book), etc.
	SHARP	MOBILE	Backup files (User Dictionary), etc.
SD_AUDIO			SD-Audio files for Media Player (SD AUDIO)



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Warranty & Service

■ Warranty

Warranty is provided when you purchase handset.

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

■ After-Sales Services

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

If you cannot find solutions or solve problems, contact SoftBank Mobile Customer Center, Customer Assistance (**P.15-39**) 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

