

Product Specification for Business PDA

SL-6000N/SL-6000D/SL-6000L/SL-6000W

CE-JC2	(CF expansion jacket)
EA-BL09	(Lithium polymer rechargeable battery)
CE-ST10	(Cradle)
EA-70	(AC adapter)

Second version
October 1, 2003

Sharp Corporation
Information and Communication Systems Group
System Device Div.

Contents

- 1 . Purpose of the planning
- 2 . Characteristics
- 3 . Main unit model variation
- 4 . Exterior image
5. System Configuration
- 6 . Specification
- 7 . Mentioned specification
- 8 . LED specification
- 9 . Peripherals

1 . Purpose of the planning

There is a tendency that PDA market is polarized into two extremes which are low-price models such as DELL and high-end models with wireless LAN or Bluetooth features. Especially in business PDA segment, network connection via wireless LAN and connection with peripherals or cellular phones (specifically in overseas) via Bluetooth are highly demanded, so that models with both features are getting a lot more attention.

This model will be commercialized as a PDA exclusively for business purposes with “readiness,” “expandability” and “reliability” that offer most appropriate mobile office solution for business use in enterprise, in addition to the support for wireless communications.

2 . Characteristics

Integrates with semi-transmissive 4-inch high resolution CG silicone VGA LCD

- Semi-transmissive screen makes it easy to see in both outside and inside (with backlight on)
- Easy to see information on the list, and easy to operate with a stylus
- Base application will allow common site planning with a PC
- Landscape view is available. Switchable between landscape and portrait views according to contents and applications.

Slide keyboard

- Built-in slide keyboard for easy and quick text entry such as writing e-mail texts

Built-in wireless LAN and Bluetooth

- Combination of built-in wireless LAN and Bluetooth. Bluetooth is for connection with small business printer or barcode reader. Wireless LAN is for connection with network.

Great expandability with CF & SD slot, USB host and expansion jacket

- CF expansion jacket to be combined with the main unit (battery included)
- USB host allows connection with various peripherals such as barcode scanner and PHS connection cable

Uses Linux/Java platform

- Linux/Java open platform that provides rich software resources is used

Flash file system and ruggedised design to eliminate worries about data loss

- Uses Flash file system in which user data or user programs will not be lost even battery dies
- Built-in sub battery for system backup to keep operation status while replacing batteries and to start the operation again right after replacement
- Ruggedised design to offer 1-meter drop resistance (on concrete surface)

3 . Main unit model variation

	Wireless LAN	Bluetooth	Flash	RAM
SL-6000N			64MB	64MB
SL-6000D			128MB	64MB
SL-6000L	X		64MB	64MB
SL-6000W	X	X	64MB	64MB

4 . Exterior image

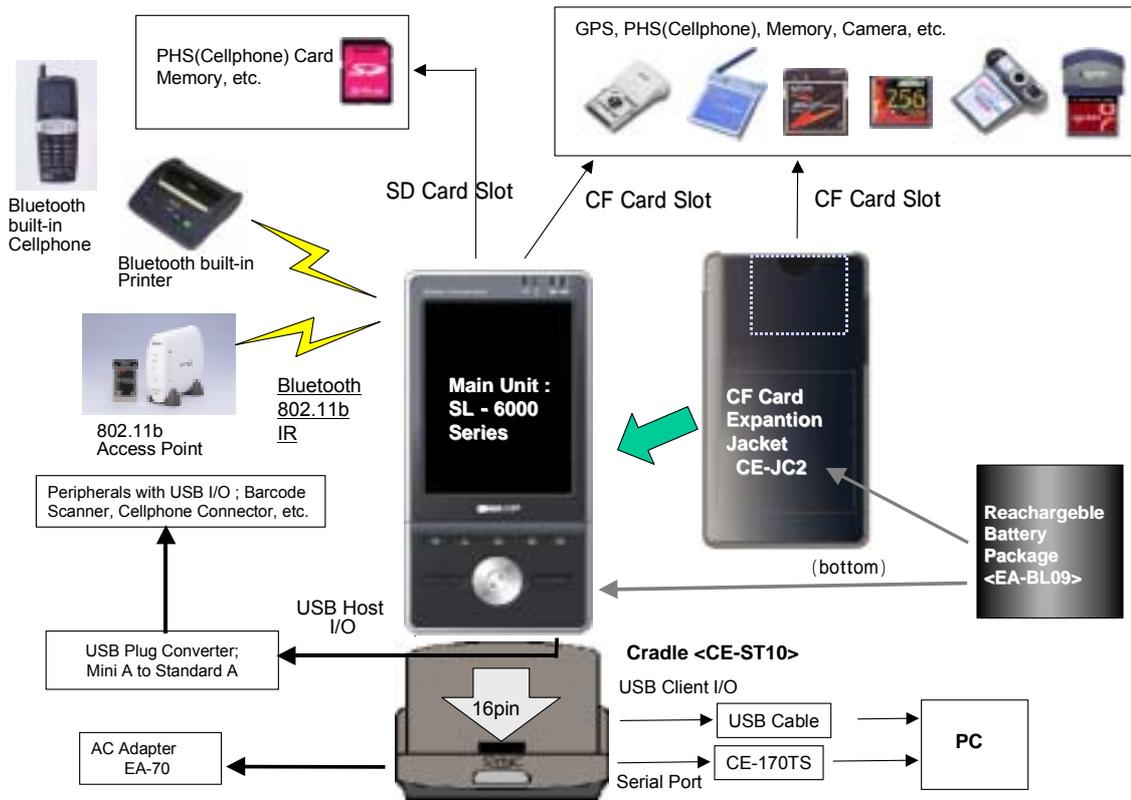
Main unit exterior image



Exterior image when CF expansion jacket is attached



5. System Configuration



New/Existing	Model number	Product name	Remarks
New	SL-6000N SL-6000D SL-6000L SL-6000W	Personal mobile tool (Main unit)	EA-BL09, EA-70, display protection cover are included
New in Japan	EA-70	AC adapter	One included with the main unit
New	EA-BL09	Lithium polymer rechargeable battery	One included with the main unit
New	CE-ST10	Cradle	USB cable (1.5 meters) included
New	CE-JC2	CF expansion jacket	EA-BL09 included
Existing	(imitation part)	USB mini A → Standard A conversion cable	Imitation part (from Mitsumi Electronics) recommended (ケーブル長約1.5m)
Existing	CE-170TS	Serial conversion cable	Existing option for Zaurus

6 . Specification

Item	Model number				
	SL-6000N	SL-6000D	SL-6000	SL-6000W	
OS	Embedded Linux				
CPU	Intel PXA255 processor (400MHz)				
Memory	Flash-ROM	64MB	128MB	64MB	64MB
	RAM	64MB			
Display system	4-inch semi-transmissive CGS color LCD (with backlight)				
Pixel / number of colors	480×640-dot, 65,536-color				
Touch-sensitive display	Analog resistance film system touch-sensitive panel				
Keys / buttons	Side	Power button, REC button			
	on movable side	14 keys (9 keys, 4 cursor keys and one center key)			
	on fixed side	37 keys (QWERTY keyboard)			
Card slot	CF card slot (TYPE□)×1, SD card slot ×1				
Optical communication interface	IrDA Ver1.2(115kbps)				
Wireless LAN	-	-	built-in 802.11b	built-in 802.11b	
Bluetooth	-	-	-	built-in	
USB host terminal	1 (mini A type)				
Earphone / microphone terminals	1 (2.5φ、3-prong) Connection to earphone-microphone or stereo headphone is available				
I/O port	1 (16-pin for connection with optional cradle CE-ST10)				
Expansion bus	1 (80-pin for connection with optional expansion jacket CE-JC2)				
Audio	Built-in speaker and microphone				
LED	Charged	Charging indicator			
	Open line	E-mail arrival	E-mail arrival	E-mail arrival Wireless LAN	E-mail arrival Wireless LAN Bluetooth
Power source	Lithium polymer rechargeable battery <EA-BL09>*1				
	Sub battery (for system backup (including RTC and RAM): for about 10 minutes)				
External size (excluding projections)	About 79.8mm (L) × about 158mm (W) × about 20.4mm(H)				
Weight	About 250g (including batteries and stylus) [target]				
Drop resistance	1m (on concrete surface) [target] *2				
Working temperature / humidity	0 ~ 40C, 20 ~ 90%RH (no condensation)				
Storage temperature / humidity	-20 ~ 60C, 5 ~ 95%RH (no condensation)				
Software	Described separately				
to be included with shipment	Display protection cover, one rechargeable battery (EA-BL09), AC adapter (EA-70), AC cord, stylus (attached to the main unit), CF slot protection card (attached to the main unit), I/O port cover (attached to the main unit), setup guide, instruction manual, list of customer centers, guarantee certificate				

*1: The power of rechargeable battery is consumed in order to backup RAM and RTC (clock function) even when the main unit is turned off.

Even after the battery is fully charged and the unit is not used at all, it will be completely dead about 15 days after.

*2: According to our test standard

No damage on the structure is found and Flash memory is protected after the main unit of SL-6000 itself and the one with a jacket (when the power is off) are dropped from 1 meter high to a flat concrete surface, twice with 6 of each side down.

* This is only the standard for quality check test, and does not guarantee safety after being dropped repeatedly.

Battery life [target]

Operation mode	Backlight	Battery life (hour)
Displaying calendar (continuous display)	OFF	About 12.0
	45 c d	About 5.0
	MAX	About 4.0
Calendar search (5 minutes: 55minutes)	OFF	About 11.0
	MAX	About 3.5
Wireless LAN (continuous communication)	MAX	About 1.5
Wireless LAN 10% access	MAX	About 2.0
Wireless LAN standby	OFF	About 5.0
Bluetooth (10% access)	MAX	About 2.5
PHS(continuouscommunication)	MAX	About 2.0
Keeping clock and RAM	(The main unit is turned off)	About 15 days

7 . Displayed Items on the Main Unit

Location	Mentioned Items
Front	Company name: "SHARP" logo mark CG Silicon logo mark Wireless LAN indicator: (symbol: antenna icon) Bluetooth indicator: (symbol: Bluetooth logo mark) E-mail arrival indicator: (symbol: envelope icon) Charging indicator: (symbol: battery and arrow icon) Slide cover key area □ See the key layout below
Top	SD card slot: "SD Card"
Left	Power button: (symbol: standby icon) Record button: "REC" Audio terminal: (symbol: headphone icon)
Bottom	DC-IN jack: (symbol: DC power icon) USB terminal: (symbol: USB icon) Reset switch area: "RESET"
Back	C card slot: "Compact Flash" Rechargeable battery attachment area: (instruction, attaching diagram) Battery cover lock/unlock switch area: (symbol: unlock icon, lock icon) Microphone hole: "MIC" Expansion bus connector area (appears when the cover is removed): Expansion Connector Other: faceplate

Key layout Slide cover (moveable side)



8 . LED specification

Name	Charging indicator	E-mail arrival indicator	Wireless LAN	Bluetooth
Number / color	1/orange	1/green	1/orange, green	1/blue
Specification	Charging: orange light on Completed: light out Charging error: quick blink	Newly arrived e-mail when receiving e-mail: light on The time set for calendar alarm has come: light on	Standby (The power is provided but no communication): orange light on While communication: green light on	Standby and communication: blue light on

9 . Peripherals

9 . 1 . Lithium polymer rechargeable battery <EA-BL09>

9 . 1 . 1 . Specification

Item	Specification
Battery	Lithium polymer rechargeable battery
Nominal capacity	1500mAh
Nominal voltage	3.7V
External size	About 66.2 (L) × 75.3 (W) × 5.9mm (H)
Weight	About 60g
Battery life	Charge and discharge 500 cycles
includes	PL card

9 . 2 . AC adapter <bundled EA-70, separately sold EA-70J>

9 . 2 . 1 . Appearance



9 . 2 . 2 . Specification

Item	Specification
Input	100V-240V 50/60Hz
Output	5V 2A
External size	About 47mm(L) × 72mm(W) × 27mm(H)
Weight	About 120g

Cord length	About 1.8m	
includes	AC cord (specification for use in Japan) PL card	To be bundled with an optional EA-70J

9.3. Cradle <CE-ST10>

9.3.1. Specification

Item	Specification	Remarks
Connection with PDA main unit	16-pin connector	
Power	AC adapter EA-70 connection DC-IN 5V	
Connection with PC	USB connection	for USB cable connection
	RS-232C connection	for serial cable <CE-170TS> connection
Expansion jacket support	Use (bundled) adapter <input type="checkbox"/> Attach adapter when inserting a PDA unit without attaching expansion jacket	
Button	SYNC button provided	
External size	About 96mm(L) × 106mm(W) × 96.2mm(H)	
Weight	(TBD)	
includes	PL card USB cable (1.5m)	

9.4. Expansion jacket <CE-JC2>

9.4.1. Specification

Item	Specification	
CF slot	1 slot	
Protection of CF slot	CF slot protection card provided	
Power	Battery	Replaceable 1500mAh lithium polymer rechargeable battery (The same battery as that used in PDA main unit)
	Recharging	Power is provided via 80-pin connector from PDA main unit
I/O port	Serial port × 1 <input type="checkbox"/> for connection with exclusive serial cable <CE-170TS> (Simultaneous use with I/O port (16-pin) on PDA main unit is not available)	
Connection with PDA main unit	80-pin connector	
Care for strap	A hole for strap is given	
External size	About 79.8mm(L) × 158mm(W) × 20.2mm(H)	
Weight	(TBD)	
Includes	Lithium polymer rechargeable battery <EA-BL09> PL card	

Rechargeable battery attached to CF expansion jacket and the one in the main unit are charged at the same time when an AC adapter is plugged in DC-IN jack on the main unit.