

SL-5000D / CE-ST6 16-pin Specifications

Revision 1.0.1 November 27, 2001

Mobile Systems Division Communications Systems Group SHARP CORPORATION



1. Signal Pin Assignment

1.1. Serial Mode

SL-5000

No.	Symbol		IN/OUT	Description	
1	PWR IN(+)			Power supply to the device, + side	
2	PWR IN(+)			Power supply to the device, + side	
3	SD	Transmitted Data	OUT	Transmitted data	
4	RD	Received Data	IN	Received data	
5	RS	Request to send	OUT	Request to send data	
6	CS	Clear to send	IN	Data transmission enabled	
7	DR	Data set ready	IN	Data set ready	
8	GND	Signal GND	GND	Signal GND	
9	USB D+	USB Data + (bi-directional)	IN/OUT	USB data signal, +	
10	WakeUp	Sync signal	IN	Trigger signal for synchronization to PC	
11	VCC	VCC	VCC	Power supply	
12	USB D-	USB Data – (bi-directional)	IN/OUT	USB data signal, -	
13	Reserve	Reserve	Reserve	Pulled down internally	
14	ER	Data terminal ready	OUT	Data terminal ready	
15	PWR GND			Power supply to the device, - side	
16	PWR GND			Power supply to the device, - side	
	FG	Frame GND			

CE-ST6 (Docking Station)

No.	Symbol		IN/OUT	N/OUT Description	
1					
2					
3	SD	Transmitted Data	OUT	Transmitted data	
4	RD	Received Data	IN	Received data	
5	RS	Request to send	OUT	Request to send data	
6	CS	Clear to send	IN	Data transmission enabled	
7	DR	Data set ready	IN	Data set ready	
8	GND	Signal GND	GND	Signal GND	
9	Reserve	Reserve	Reserve	Reserve	
10	Sync	Sync signal	IN	Trigger signal for synchronization from PC	
11	VCC	VCC	VCC	Power supply	
12	Reserve	Reserve	Reserve	Reserve	
13	Reserve	Reserve	Reserve	Reserve	
14	ER	Data terminal ready	OUT	Data terminal ready	
15					
16					
	FG	Frame GND			



2. Electrical Specifications

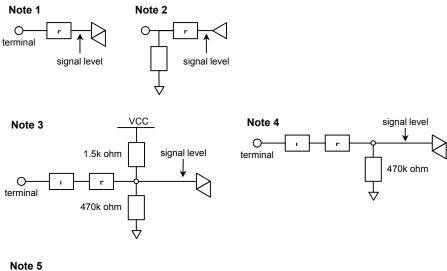
2.1. Digital Input / Output

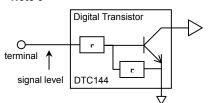
	Serial Mode		
	Signal Level	pin(s)	
V _{IH} 1(min)	2.4 V	4, 9, 12	
V _{IL} 1(max)	0.2VCC	4, 9, 12	
V _{IH} 2(min)	2.0 V	6, 7	
V _{IL} 2(max)	0.8 V	6, 7	
V _{OH} 1(min)	0.8VCC	3, 9, 12	
V _{OL} 1(max)	0.2VCC	3, 9, 12	
V _{OH} 2(min)	VCC-0.4 V	5, 14	
V _{OL} 2(max)	GND+0.4 V	5, 14	
V _{IH} 3(min)	3.0 V	10	
V _{IL} 3(max)	0.5 V	10	

2.2. Input / Output Type

Type	Description	Pin(s)	Remarks
Type 1	100 ohm	3, 4	Note 1
Type 2	1k ohm	5, 6, 7	Note 1
Type 3	1k ohm + 4700 pF	14	Note 2
Type 4	24 ohm + Common mode choke coil	9	Note 3
Type 5	24 ohm + Common mode choke coil	12	Note 4
Type 6	Digital Transistor	10	Note 5







L (common mode choke coil)

P/N: F900DCB-1124 Vendor: TOKO Inc.

2.3. Power Line

VCC Line:

VCC = 3.3V + / -0.3V

Beads are inserted on this power supply line. See below for bead details:

(beads)

P/N: MMZ1608Y152 Vendor: TDK Corporation

Characteristics: DCR ≤ 0.7 ohm, Z = 1500 ohm (typ.) at 100 MHz

GND Line:

GND = 0 V

Beads and fuse are inserted on this GND line. See below for details:

(beads)

P/N: MMZ1608Y152 Vendor: TDK Corporation

Characteristics: DCR ≤ 0.7 ohm, Z = 1500 ohm (typ.) at 100 MHz

(fuse)

P/N: KAB3202631NA29

Vendor: Matsuo Electric Corporation

Characteristics: DCR ≤ 0.24 ohm, I = 630 mA



2.4. Absolute Maximum Ratings

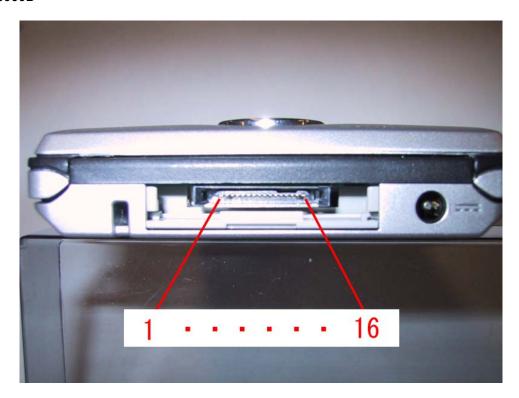
$$\begin{split} &V_{IH}~(max) = VCC + 0.3~V\\ &V_{IL}~(min) = GND - 0.3~V\\ &I~Vcc = max~10~mA~(current~that~can~be~supplied~from~the~SL-5000D) \end{split}$$

3. Mechanical Specifications

(Also See mechanical dimensions on separate file)

3.1. Pin Layouts

On the SL-5000D

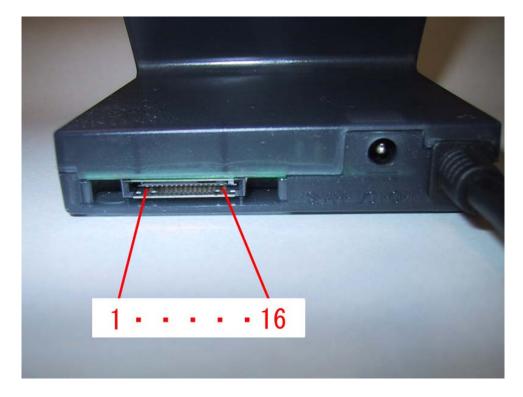


Connector Used:

P/N: TCX3104-010100 (Hoshiden Corporation)



On the Docking Station



Connector Used:

P/N: TCX3104-010100 (Hoshiden Corporation)

3.2. Applicable Connector

In case you are to create a cable that would fit to the serial connector used on both the unit and the docking station, following connector will fit:

P/N: TCX3106-010100 (Hoshiden Corporation)