



JH601J/JH601T  
for SH-Mobile series



## Specifications

Common Part	
Target Processor	SH7290(SH-Mobile 1), SH7294(SH-Mobile J), SH7300(SH-Mobile V)
Operation Voltage	VCCQ: 2.7 – 3.6v, VCC: 1.4 – 1.6v
Operating Clock	CPU: 133MHz(max), External Bus: [SH7290/7294]: 33MHz(max) [SH7300]: 66MHz(max) Peripheral Module: 33MHz(max)
Memory Space	All memory space is released to a users system
Interrupts	All memory space is released to a users system
Endian	Little Endian/Big Endian
Target System I/F	[H-UDI Interface (14pin, 2.54mm pitch)] The connector on the target: 7614-6002FL(Sumitomo 3M) [H-UDI + AUD Interface (36pin)] The connector on the target: DX10M-36S/DX10M-36SE/DX10GM-36SE(Hirose)
Software Break	Point break: 1024 points by replacing instructions with software break Temporary break: 1 point (by using On-Chip Resource) Countable break: 1 point
Hardware Break	2 Points (max)
OCD Break	1 Point (Fetch Break/Data Access Break in the cash/user ROM area)
Flash Programming	Flash memory programmable with the standard commands (block erasing/programming) of JEDEC (compliant) & INTEL (equivalent) methods is supported.
Performance Feature	Only for JH601T model.

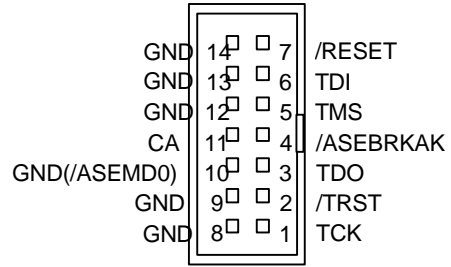
Other Specifications	
Host PC and OS	PC/AT Compatible, Microsoft Windows 98SE, Me, XP, NT4.0, 2000 10BASE-T/100BASE-TX, USB(Full-speed)
Compiler	Renesas Technology C/C++ compiler Green Hills C/C++ compiler Gaio Technology C compiler

## System Configuration

Model	Details
1	JH601J
	JH601T
	(Options)
	External Cable
	Main unit for JTAG Model, HUDI Probe, Install Kit(Debugger, USB cable, Documents)
	Main unit for Trace Model, HUDI/AUDProbe, Install Kit(Debugger, USB cable, Documents)
	For the external trigger

### H-UDI Pin Assignment

Pin No.	Signal Name	notes	Pin No.	Signal Name	notes
14	GND	*4-	7	/RESET	*1
13	GND	-	6	TDI	-
12	GND	-	5	TMS	-
11	CA	*3	4	/ASEBRKAK	-
10	GND(/ASEMD0)	*2	3	TDO	-
9	GND	-	2	/TRST	-
8	GND	-	1	TCK	-



\*1 Connect the signal to /RESETP of MPU.

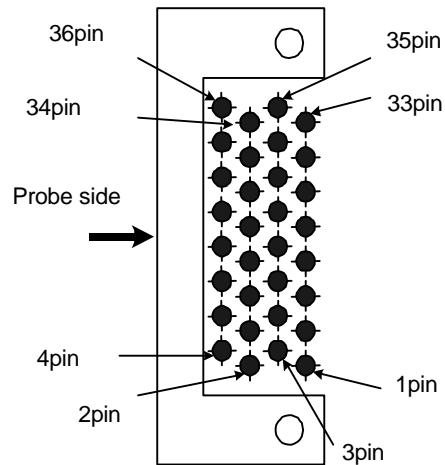
\*2 By connecting /ASEMD0, MPU will be automatically ASE mode (ICE mode) when it is connecting to advicePOCKET.

\*3 Be [+3.3v connection] or [N.C.] when the hardware standby (CA) is unavailable on the user system.

\*4 By detecting the GND on the user system, the condition of the connecting to the user system is monitored.

### Trace Probe Pin Assignment

Pin No.	Signal Name	notes	Pin No.	Signal Name	notes
36	GND	-	35	NC	-
34	GND	-	33	GND	-
32	GND	-	31	/RESET	*3
30	GND(ASEMD0)	*2-	29	CA	*1
28	GND	-	27	/ASEBRKAK	-
26	GND	-	25	TDO	-
24	GND	-	23	TDI	-
22	GND	-	21	/TRST	-
20	GND	-	19	TMS	-
18	GND	-	17	TCK	-
16	GND	-	15	NC	-
14	GND	-	13	NC	-
12	GND	-	11	/AUDSYNC	-
10	GND	-	9	AUDATA3	-
8	GND	-	7	AUDATA2	-
6	GND	-	5	AUDATA1	-
4	GND	-	3	AUDATA0	-
2	GND	-	1	AUDCK	-

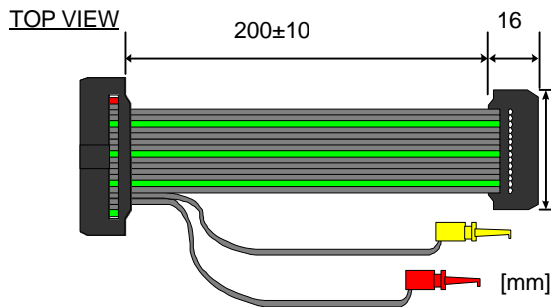


\*1 Be [+3.3v connection] or [N.C.] when the hardware standby (CA) is unavailable on the user system.

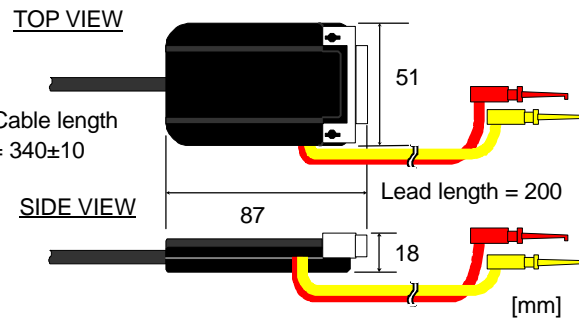
\*2 Connect the signal to /RESETP of MPU.

\*3 By connecting /ASEMD0, MPU will be automatically ASE mode (ICE mode) when it is connecting to advicePOCKET.

### H-UDI Probe Dimension



### Trace Probe Dimension



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