

JTAG emulator PALMICE3 H8S



PALMiCE3 H8S is a JTAG emulator that incorporates on-chip debugging function in H8S and H8SX family cores. It supports USB2.0 (High-speed) as the host interface. Yet, the Vbus, which requires no power supply, is also supported in PALMiCE3 as the feature was well received in PALMiCE2. PALMiCE3 has a palm-sized, light and compact body, providing excellent portability to support you with debugging. As for the debugger, it surely incorporates CSIDE, which provides a user-friendly debugging environment. CSIDE supports not only high-level language debugging of a range of C languages but also fully prepared for the debugging of a range of RTOSs with optional debug libraries. Support for SuperH family is also available with optional CSIDE.

- Supports USB2.0(High-speed), allowing high-speed processing
- A palm-sized, compact body
- Flash memory debugging feature
- Branch tracing feature, CPU break feature
- Requires no power supply with Vbus support
- Undo Trace into feature
- Supports SuperH family (Optional)
- Supports debugging of a range of RTOSs (Optional)

Main Spec	ifications			
Supported CPU	H8S *1	H8S/2166F, H8S/2167F, H8S/2168F, H8S/2211F, H8S/2211UF, H8S/2212F, H8S/2212UF, H8S/2215RF, H8S/2215RUF, H8S/2215TF, H8S/2215TUF, H8S/2218F, H8S/2218UF, H8S/2319EF, H8S/2329EF, H8S/2339EF, H8S/2360F, H8S/2361F, H8S/2362F, H8S/2364F, H8S/2367F, H8S/2368F, H8S/2370F, H8S/2370RF, H8S/2371F, H8S/2371RF, H8S/2372F, H8S/2372RF, H8S/2374F, H8S/2374F, H8S/2377F, H8S/2377F, H8S/2378F, H8S/2378F, H8S/2378F, H8S/2378RF, H8S/2462F		
	H8SX *1	H8SX/1525F, H8SX/1527F, H8SX/1527RF, H8SX/1543F, H8SX/1544F, H8SX/1582F, H8SX/1622F, H8SX/1632F, H8SX/1634F, H8SX/1638F, H8SX/1642F, H8SX/1644F, H8SX/1648F, H8SX/1651, H8SX/1653F, H8SX/1653RF, H8SX/1654RF, H8SX/1654RF, H8SX/1665F, H8SX/1662F, H8SX/1663F, H8SX/1663RF, H8SX/1664F, H8SX/1664RF, H8SX/1665F, H8SX/1668RF		
	Voltage	1.65V-5.5V (Follows target).		
Target I/F	Voltage measurement	Measures by sampling and shows the results with accuracy of 50mV and precision showing 2 decimal places.		
	Connector	14-pin MIL connector, 20cm cable		
H-UDI clock		Can be set freely in 0.5MHz increments between 0.5MHz and 20MHz.		
Register, memory, I/O operation		Supports referencing/editing of register, memory, and I/O and downloading to memory during break.		
Flash memory support	On-chip flash memory:	Supports software break settings and ordinary memory rewriting feature in addition to downloading. Also supports security feature.		
	External flash memory:	Supports software break settings and ordinary memory rewriting feature in addition to downloading. Also, new device support can be added easily by using CSIDE.		
Software break	feature	Supports up to 256 points with instruction replacement method.		
CPU break feature *2		Feature in CPU to break at the set bus condition.		
Branch tracing f	eature *2	Feature to acquire branching information right before the break.		
Execution time		Measures execution time of the user program (64-bit counter, measurement unit=50nS)		
Simulated I/O feature *2		Allows execution of the functions for standard input and output on the target system against the host.		
Undo Trace into	feature *2	Feature to virtually go back in Trace into execution (Single-step execution)		
Debugger include		CSIDE for PALMiCE3 H8S-E		
Power spe		DC+5V 250mA (Vbus support for USB)		
Outside dimensions		95mm(W) ×70mm (D) ×21mm (H)		
<u> </u>		USB mini-B connector		
era	Host computer	The computers running on the supported OSs		
General Genera	CD drive	Required at the time of installation		
Operating	LICE	USB2.0		
g environmer	OS	Windows Vista 32-bit version / Windows 7 32-bit version, 64-bit version / Windows 8 32-bit version, 64-bit version		
Product composition contents		PALMiCE3 HUDI141 model main unit *3 / H-UDI cable (specifically for PALMiCE3) / 2m USB cable / dedicated debugger (CD-ROM)		
Support System		Available		
Support System				

^{*1:} In CPUs other than H8S/2300 series and H8SX/1651, expansion mode for disabling on-chip ROM will not work.

^{*2:} Depending on the CPU, the state of support provision differs. For details, see "Functional Specifications by CPU" page in this document.

^{*3:} The HUDI140 model (old model) and the HUDI141 model have the same software specifications.

Functional Specifications by CPU						
Supported CPU		H8S	H8SX			
CPU break feature		Address, data, and CPU status can be specified.	Address, data, CPU status, and bus cycle can be specified. Sequential break using 2-4 points can be specified.			
		2 points	4 points (1 of which can be specified by data or pass count)			
Branch tracing feature	Maximum number of branch captures	4 branches	8 branches			
	Shows:	Branching source only	Branching source/destination, and supplementation between branches			
DTC parallel transfer feature *1			0			
Simulated I/O feature *2			0			
Undo Trace into feature		0				

^{*1:} The feature allows memory access without break during user program execution.

^{*2:} The feature is implemented by DTC parallel transfer feature incorporated.

Supported languages and supported RTOSs						
Supported CPU		H8S	H8SX			
Supported C compiler	Renesas C	0	0			
Supported RTOS *1 (Optional)	HI-OS	HI2000/3				
	NORTi	0	0			

For details on supported CPUs, versions, etc. please contact us.

^{*1:} Requires optional debug libraries dedicated to each RTOSs.

Optional CSIDE				
Product name	Description			
CSIDE for PALMiCE3 SH-E	Optional CSIDE for debugging of SuperH family CPUs.			
CSIDE for PALMiCE3 V850-E	Optional CSIDE for debugging of V850 CPUs.			

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^{*} Please be forewarned that information in this document is subject to change without prior notice.

- * COMPUTEX, CSIDE, and PALMiCE are registered trademarks of Computex Co., Ltd. in Japan.
- * SuperH is a registered trademark or trademark of Renesas Electronics Corporation in Japan, the USA, and other countries.
- * Other names of the products, CPUs, and companies mentioned in this document are business names, trade names, trademarks, or registered trademarks of their respective owners.

^{*:} As for the individual CPU support, look it up in our website at http://www.computex.co.jp/asp/cpu/cpu.asp or contact our Sales Department.

*: Together with optional CSIDE, you will need to purchase the respective conversion adapter, etc. that will go in combination with PALMiCE3 main unit. For details, contact our Sales Department.