

# Renesas Extensions for Visual Studio Code 2023-01

### Release Note

#### Introduction

This document outlines the device support and known issues with the Renesas Extensions for Visual Studio Code.

For a usage guide please refer to the Renesas Extensions for Visual Studio Code - Quick start guide.

This can be viewed here: Quick start guide

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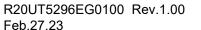
# 1. Device Support

# 1.1 Device Support – Windows Hosted

Family	Group	Devices
_	RA2A1	R7FA2A1AB2CBT, R7FA2A1AB3CFJ, R7FA2A1AB3CFM,
	IVALAI	R7FA2A1AB3CNE, R7FA2A1AB3CNF
		R7FA2E1A52DBV, R7FA2E1A52DFJ, R7FA2E1A52DFL,
		R7FA2E1A52DLM,
		R7FA2E1A52DNE, R7FA2E1A52DNH, R7FA2E1A53CBV,
		R7FA2E1A53CFJ,
		R7FA2E1A53CFL, R7FA2E1A53CLM, R7FA2E1A53CNE,
		7FA2E1A53CNH, R7FA2E1A72DBU, R7FA2E1A72DBV, R7FA2E1A72DFJ,
		R7FA2E1A72DFK,
		R7FA2E1A72DFL, R7FA2E1A72DFM, R7FA2E1A72DLM,
		7FA2E1A72DNE,
		R7FA2E1A72DNH, R7FA2E1A73CBU, R7FA2E1A73CBV,
		R7FA2E1A73CFJ,
		R7FA2E1A73CFK, R7FA2E1A73CFL, R7FA2E1A73CFM,
	RA2E1	R7FA2E1A73CLM,
	IVAZLI	R7FA2E1A73CNE, R7FA2E1A73CNH, R7FA2E1A82DBU,
		R7FA2E1A82DBV, R7FA2E1A82DFJ, R7FA2E1A82DFK,
		R7FA2E1A82DFL, R7FA2E1A82DFM, R7FA2E1A82DLM,
		R7FA2E1A82DNE, R7FA2E1A82DNH, R7FA2E1A83CBU,
		R7FA2E1A83CBV, R7FA2E1A83CFJ, R7FA2E1A83CFK,
		R7FA2E1A83CFL, R7FA2E1A83CFM, R7FA2E1A83CLM, R7FA2E1A83CNE, R7FA2E1A83CNH, R7FA2E1A92DBU,
		R7FA2E1A63CNE, R7FA2E1A63CNII, R7FA2E1A92DBO, R7FA2E1A92DBV, R7FA2E1A92DFJ, R7FA2E1A92DFK,
RA		R7FA2E1A92DFL, R7FA2E1A92DFM, R7FA2E1A92DLM,
KA		R7FA2E1A92DNE, R7FA2E1A92DNH, R7FA2E1A93CBU,
		R7FA2E1A93CBV, R7FA2E1A93CFJ,
		R7FA2E1A93CFK, R7FA2E1A93CFL, R7FA2E1A93CFM,
		R7FA2E1A93CLM,
_		R7FA2E1A93CNE, R7FA2E1A93CNH
		R7FA2E2A32DBW, R7FA2E2A32DNJ, R7FA2E2A32DNK,
		R7FA2E2A33CBW, R7FA2E2A33CNJ, R7FA2E2A33CNK,
	RA2E2	R7FA2E2A34CBW, R7FA2E2A34CNJ, R7FA2E2A34CNK, R7FA2E2A52DBW, R7FA2E2A52DNJ, R7FA2E2A52DNK,
		R7FA2E2A52DBW, R7FA2E2A52DNJ, R7FA2E2A52DNK, R7FA2E2A53CNK, R7FA2E2A53CNK,
	IVAZLZ	R7FA2E2A55CBW, R7FA2E2A55CNJ, R7FA2E2A55CNK,
		R7FA2E2A72DBW, R7FA2E2A72DNJ, R7FA2E2A72DNK,
		R7FA2E2A73CBW, R7FA2E2A73CNJ, R7FA2E2A73CNK,
		R7FA2E2A74CBW, R7FA2E2A74CNJ, R7FA2E2A74CNK
		R7FA2L1A92DFL, R7FA2L1A92DFM, R7FA2L1A92DFN,
_		R7FA2L1A92DFP, R7FA2L1A92DNE, R7FA2L1A93CFL,
		R7FA2L1A93CFM, R7FA2L1A93CFN, R7FA2L1A93CFP,
	RA2L1	R7FA2L1A93CNE, R7FA2L1AB2DFL, R7FA2L1AB2DFM,
		R7FA2L1AB2DFN, R7FA2L1AB2DFP, R7FA2L1AB2DNE,
		R7FA2L1AB3CFL, R7FA2L1AB3CFM, R7FA2L1AB3CFN,
		R7FA2L1AB3CFP, R7FA2L1AB3CNE
	RA4E1	R7FA4E10B2CFM, R7FA4E10B2CNE, R7FA4E10D2CFM,
		R7FA4E10D2CNE
_		



RA4M1	R7FA4M1AB2CLJ, R7FA4M1AB3CFL, R7FA4M1AB3CFM, R7FA4M1AB3CFP, R7FA4M1AB3CNB, R7FA4M1AB3CNE, R7FA4M1AB3CNF,
RA4M2	R7FA4M2AB3CFL, R7FA4M2AB3CFM, R7FA4M2AB3CFP, R7FA4M2AB3CNE, R7FA4M2AC3CFL, R7FA4M2AC3CFM, R7FA4M2AC3CFP, R7FA4M2AC3CNE, R7FA4M2AD3CFL, R7FA4M2AD3CFM, R7FA4M2AD3CFP, R7FA4M2AD3CNE
RA4M3	R7FA4M3AD3CFB, R7FA4M3AE3CFB, R7FA4M3AE3CFM, R7FA4M3AE3CFP, R7FA4M3AF3CFB, R7FA4M3AF3CFM, R7FA4M3AF3CFP,
RA4W1	R7FA4W1AD2CNG
RA6E1	R7FA6E10D2CFM, R7FA6E10D2CFP, R7FA6E10D2CNE, R7FA6E10F2CFM, R7FA6E10F2CFP, R7FA6E10F2CNE
RA6M1	R7FA6M1AD2CLJ, R7FA6M1AD3CFM, R7FA6M1AD3CFP, R7FA6M1AD3CLJ, R7FA6M1AD3CNB
RA6M2	R7FA6M2AD2CLK, R7FA6M2AD3CFB, R7FA6M2AD3CFP, R7FA6M2AD3CLK, R7FA6M2AF2CLK, R7FA6M2AF3CFB, R7FA6M2AF3CFP, R7FA6M2AF3CLK
RA6M3	R7FA6M3AF2CBG, R7FA6M3AF2CLK, R7FA6M3AF3CBG, R7FA6M3AF3CFB, R7FA6M3AF3CFC, R7FA6M3AF3CFP, R7FA6M3AF3CLK, R7FA6M3AH2CBG, R7FA6M3AH2CLK, R7FA6M3AH3CBG, R7FA6M3AH3CFB, R7FA6M3AH3CFC, R7FA6M3AH3CFP, R7FA6M3AH3CLK
RA6M4	R7FA6M4AD3CFB, R7FA6M4AD3CFM, R7FA6M4AD3CFP, R7FA6M4AE3CFB, R7FA6M4AE3CFM, R7FA6M4AE3CFP, R7FA6M4AF3CFB, R7FA6M4AF3CFM, R7FA6M4AF3CFP
RA6M5	R7FA6M5AG2CBG, R7FA6M5AG3CFB, R7FA6M5AG3CFC, R7FA6M5AG3CFP, R7FA6M5AH2CBG, R7FA6M5AH3CFB, R7FA6M5AH3CFC, R7FA6M5AH3CFP, R7FA6M5BF2CBG, R7FA6M5BF3CFB, R7FA6M5BF3CFP, R7FA6M5BG2CBG, R7FA6M5BG3CFB, R7FA6M5BG3CFC, R7FA6M5BG3CFP, R7FA6M5BG3CFP, R7FA6M5BG3CFP, R7FA6M5BH3CFB, R7FA6M5BH3CFC, R7FA6M5BH3CFC, R7FA6M5BH3CFC, R7FA6M5BH3CFC, R7FA6M5BH3CFP
RA6T1	R7FA6T1AB3CFM, R7FA6T1AB3CFP, R7FA6T1AD3CFM, R7FA6T1AD3CFP
RA6T2	R7FA6T2AB3CFL, R7FA6T2AB3CFM, R7FA6T2AB3CFP, R7FA6T2AB3CNB, R7FA6T2AB3CNE, R7FA6T2AD3CFL, R7FA6T2AD3CFM, R7FA6T2AD3CFM, R7FA6T2AD3CNB, R7FA6T2AD3CNE, R7FA6T2BB3CFM, R7FA6T2BB3CFP, R7FA6T2BB3CNB, R7FA6T2BB3CNE, R7FA6T2BD3CFL, R7FA6T2BD3CFP, R7FA6T2BD3CFP, R7FA6T2BD3CNB, R7FA6T2BD3CNB, R7FA6T2BD3CNB, R7FA6T2BD3CNB, R7FA6T2BD3CNB, R7FA6T2BD3CNB, R7FA6T2BD3CNB, R7FA6T2BD3CNB
110	R5F51101, R5F51103, R5F51104, R5F51105, R5F5110H, R5F5110J
111	R5F51111, R5F51113, R5F51114, R5F51115, R5F51116, R5F51117, R5F51118, R5F5111J
113	R5F51135, R5F51136, R5F51137, R5F51138
130	R5F51303, R5F51305, R5F51305B, R5F51306, R5F51306B, R5F51307, R5F51308



RX

Feb.27.23



13T	R5F513T3. R5F513T5
140	R5F51403, R5F51405, R5F51406
140	R5F52103, R5F52104, R5F52105, R5F52106, R5F52107, R5F52108,
210	R5F5210A, R5F5210B
21A	R5F521A6, R5F521A7, R5F521A8
220	R5F52201, R5F52203, R5F52205, R5F52206
230	R5F52305, R5F52306
231	R5F52315, R5F52316, R5F52317, R5F52318
23E-A	R5F523E5A, R5F523E5S, R5F523E6A, R5F523E6S
23T	R5F523T3, R5F523T5
23W	R5F523W7, R5F523W8
24T	R5F524T8, R5F524TA, R5F524TB, R5F524TC, R5F524TE
24U	R5F524UB, R5F524UC, R5F524UE
610	R5F56104, R5F56106, R5F56107, R5F56108
621	R5F56216, R5F56217, R5F56218
62G	R5F562G7, R5F562GA
62N	R5F562N7, R5F562N8
62T	R5F562T6, R5F562T7, R5F562TA
630	R5F56307, R5F56308, R5F5630A, R5F5630B, R5F5630D, R5F5630E
	R5F56316, R5F56317, R5F56318, R5F5631A, R5F5631B, R5F5631D, R5F5631E, R5F5631F, R5F5631G, R5F5631J, R5F5631K, R5F5631M,
	R5F5631MF, R5F5631N, R5F5631P, R5F5631PF, R5F5631W,
631	R5F5631Y, R5S56310
634	R5F5634B, R5F5634B_5V, R5F5634D, R5F5634D_5V, R5F5634E, R5F5634E 5V
034	
63N	R5F563NA, R5F563NB, R5F563ND, R5F563NE, R5F563NF, R5F563NK, R5F563NW, R5F563NY
0014	
63T	R5F563T4, R5F563T5, R5F563T6, R5F563TB, R5F563TB_5V, R5F563TC, R5F563TC_5V, R5F563TE, R5F563TE_5V
64M	R5F564MF, R5F564MG, R5F564MJ, R5F564ML
	R5F56514, R5F56517, R5F56519, R5F5651C, R5F5651C_DUAL,
	R5F5651E, R5F5651E_DUAL
	R5F56519DMB, R5F5651EDMB, R5F5651EDMB DUAL,(Debug
651	Support Only)
	R5F565N4, R5F565N7, R5F565N9, R5F565NC, R5F565NC_DUAL,
	R5F565NE, R5F565NE_DUAL
	R5F565N9DMB, R5F565NEDMB, R5F565NEDMB DUAL,(Debug
65N	Support Only)
	D
	R5F56604A, R5F56604B, R5F56604C, R5F56604D, R5F56604E, R5F56604F, R5F56604G, R5F56604H, R5F56609A, R5F56609B,
	R5F56609C, R5F56609D, R5F56609E, R5F56609F, R5F56609G,
660	R5F56609H
66N	R5F566ND, R5F566ND_DUAL, R5F566NN, R5F566NN_DUAL
66T	R5F566TA, R5F566TAXXFL, R5F566TE, R5F566TEXXFL, R5F566TF, R5F566TK
	R5F56719, R5F56719_DUAL, R5F5671C, R5F5671C_DUAL,
671	R5F5671E, R5F5671E_DUAL
71M	R5F571MF, R5F571MG, R5F571MJ, R5F571ML



_	72M	R5F572MD, R5F572MD_DUAL, R5F572MN, R5F572MN_DUAL
	72N	R5F572ND, R5F572ND_DUAL, R5F572NN, R5F572NN_DUAL
	72T	R5F572TF, R5F572TK
_	_	R0E5571MLDMBXX,(Debug Support Only)
		R7S721000, R7S721000 DualSPI, R7S721001, R7S721001 DualSPI,
		R7S721000, R7S721000_DualSPI, R7S721001, R7S721001_DualSPI, R7S721011, R7S721011 DualSPI,
		R7S721020, R7S721020 DualSPI, R7S721021, R7S721021 DualSPI,
		R7S721030, R7S721030 DualSPI, R7S721031, R7S721031 DualSPI,
	A1	R7S721034, R7S721034 DualSPI
_		R7S921040, R7S921041, R7S921042, R7S921043, R7S921045,
		R7S921046, R7S921047, R7S921048, R7S921051, R7S921052,
_	A2	R7S921053, R7S921056, R7S921057, R7S921058
	G1E	R8A77450, R8A77450_Core1,(Debug Support Only)
_	G1M	R8A77430, R8A77430_Core1,(Debug Support Only)
_	-	R9A07G044L13GBG CM33, R9A07G044L23GBG CM33
	G2L	R9A07G044L14GBG_CM33, R9A07G044L24GBG_CM33
	G2LC	R9A07G044C12GBG_CM33, R9A07G044C22GBG_CM33
_	G2UL	R9A07G043U11GBG_CM33, R9A07G043U12GBG_CM33
	GZUL	R7S910001, R7S910002, R7S910006, R7S910007, R7S910011,
		R7S910001, R7S910002, R7S910000, R7S910007, R7S910011, R7S910013, R7S910015, R7S910015 M3, R7S910016,
		R7S910016 M3, R7S910017, R7S910017 M3, R7S910018,
		R7S910018 M3, R7S910025, R7S910026, R7S910027, R7S910028,
RZ		R7S910035, R7S910036, R7S910101, R7S910102, R7S910106,
		R7S910107, R7S910111, R7S910113, R7S910115, R7S910115_M3,
		R7S910116, R7S910116_M3, R7S910117, R7S910117_M3,
		R7S910118, R7S910118_M3, R7S910125, R7S910126, R7S910127,
_	T1	R7S910128, R7S910135, R7S910136
	<b></b>	R7S910020, R7S910021, R7S910022, R7S910023, R7S910120,
-	T1-M	R7S910121, R7S910122, R7S910123
		R9A07G075M01GFA, R9A07G075M05GFA, R9A07G075M01GFP, R9A07G075M05GFP,
		R9A07G075M01GFF, R9A07G075M03GFF,
		R9A07G075M22GBA, R9A07G075M22GBA CPU1,
		R9A07G075M22GBA, R9A07G075M22GBA, CPU1,
		R9A07G075M26GBA, R9A07G075M26GBA_CPU1,
		R9A07G075M27GBA, R9A07G075M27GBA_CPU1,
		R9A07G075M28GBA, R9A07G075M28GBA_CPU1,
		R9A07G075M22GBG, R9A07G075M22GBG_CPU1,
		R9A07G075M24GBG, R9A07G075M24GBG_CPU1,
	T2M	R9A07G075M26GBG, R9A07G075M26GBG_CPU1,
_	I ZIVI	R9A07G075M28GBG, R9A07G075M28GBG_CPU1 R9A07G054L13GBG, R9A07G054L23GBG,
	V2L	R9A07G054L14GBG, R9A07G054L24GBG
-		R7FS1JA783A01CFM, R7FS1JA783A01CNE, R7FS1JA783A01CNF,
	S1JA	R7FS1JA782A01CBT, R7FS1JA783A01CFJ
- Synergy		R7FS124762A01CLM, R7FS124763A01CFL, R7FS124763A01CFM,
	S124	R7FS124772A01CLM, R7FS124773A01CFL, R7FS124773A01CFM,
		R7FS124773A01CNB, R7FS124773A01CNE, R7FS124773A01CNF
	S128	R7FS128782A01CLM, R7FS128783A01CFJ, R7FS128783A01CFL,
	0.20	R7FS128783A01CFM, R7FS128783A01CNE, R7FS128783A01CNG
	0044	R7FS3A17C2A01CLK, R7FS3A17C3A01CFB, R7FS3A17C2A01CBJ,
	S3A1	R7FS3A17C2A01CLJ, R7FS3A17C3A01CFM,
_		R7FS3A17C3A01CFP, R7FS3A17C3A01CNB R7FS3A37A2A01CLK, R7FS3A37A3A01CFB, R7FS3A37A2A01CBJ,
_	S3A3	R7FS3A37A2A01CLN, R7FS3A37A3A01CFB, R7FS3A37A2A01CBJ, R7FS3A37A2A01CFM,
	23/10	R7FS3A37A3A01CNB

		R7FS3A6782A01CLJ, R7FS3A6783A01CFL, R7FS3A6783A01CFM,
	S3A6	R7FS3A6783A01CFP, R7FS3A6783A01CNB, R7FS3A6783A01CNE,
		R7FS3A6783A01CNF
•		R7FS3A77C2A01CLK, R7FS3A77C3A01CFB, R7FS3A77C2A01CBJ,
	S3A7	R7FS3A77C3A01CFP, R7FS3A77C2A01CLJ, R7FS3A77C3A01CFM,
		R7FS3A77C2A01CNB, R7FS3A77C3A01CNB
•	OFD2	R7FS5D37A2A01CLJ, R7FS5D37A3A01CFP, R7FS5D37A3A01CFM,
	S5D3	R7FS5D37A3A01CNB
•	CEDE	R7FS5D57A2A01CLK, R7FS5D57A3A01CFB, R7FS5D57A3A01CFP,
	S5D5	R7FS5D57C2A01CLK, R7FS5D57C3A01CFB, R7FS5D57C3A01CFP
•		R7FS5D97C2A01CBG, R7FS5D97C3A01CFC, R7FS5D97C2A01CLK,
	CED0	R7FS5D97C3A01CFB, R7FS5D97C3A01CFP,
	S5D9	R7FS5D97E2A01CBG, R7FS5D97E3A01CFC, R7FS5D97E2A01CLK,
		R7FS5D97E3A01CFB, R7FS5D97E3A01CFP
•		R7FS7G27H2A01CBD, R7FS7G27G2A01CBD, R7FS7G27H2A01CBG,
		R7FS7G27G2A01CBG, R7FS7G27H2A01CFC, R7FS7G27H3A01CFC,
	S7G2	R7FS7G27G2A01CFC, R7FS7G27G3A01CFC, R7FS7G27H2A01CLK,
		R7FS7G27G2A01CLK, R7FS7G27H3A01CFB, R7FS7G27G3A01CFB,
		R7FS7G27G3A01CFP

## 2. Useful workarounds and information

ID	Component	Workaround or information
IDE- 56289	VScode	When debugging RH850 using the CCRH compiler for the G4MH it has been noted that C source code can be debugged, but at one point when the code runs to direct_vector asm file, debugging is halted and cannot be restarted.
IDE- 56108	VScode	Breakpoints being added in CVe debugging are only Software breakpoints when using VS Code, which are not supported for shader hardware debug.
IDE- 53708	VScode	The "Run To Line" feature in VS Code adds a breakpoint to that line and resumes to hit that breakpoint.  If running to a valid source line with a disabled breakpoint, using "Run To Line" will resume the execution without breaking at that line.
IDE- 53691	VScode	Breakpoints that are set in the disassembly window do not work correctly and stop program execution.
IDE- 51342	VScode	When debugging using Linux target with the Renesas Debug Adaptor it is not possible to automatically start the gdb server on the target system. (Linux application).  You must manually start this gdb server on the target board when debugging Linux target.

### 3. Appendix

### 3.1 Website and Support

Renesas Electronics Website http://www.renesas.com/

Inquiries

http://www.renesas.com/contact/

## 3.2 Web Access and Privacy Policy

Collection of User Information Applications included in this package may access the Renesas Web site. In such cases, the following information is collected and recorded to Renesas server as a log.

- Date and time of access
- Access to URLs and files
- The unique certificate number linked to your account for MyRenesas (only when you log in to MyRenesas)
- The unique identification number linked to cookies for the Web browser (for cookies, refer to the privacy policy page stated below).

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Refer to our privacy policy on the following Web page.

Privacy Policy:

https://www.renesas.com/privacy.html



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