This checklist must be submitted as a PDF as part of your submission.

Name of Certifying Engineer(s): :Yoshihiko Enmoto Email of Certifying Engineer(s): yoshihiko.enmoto.wz@renesas.com Name(s) of System Under Test: EK-RA8D1
Division (check one): ☐ Open ✓ Closed
Category (check one):

- ✓ Available
- □ Preview
- ☐ Research, Development, and Internal (RDI)

Benchmark(s) (check all that apply):

- ✓ Visual Wake Words
- ✓ Keyword Spotting
- ✓ Anomaly Detection
- √ Image Classification

Please fill in the following table adding lines as necessary:

System Under Test Name	Benchmark	Accuracy/AUC
EK-RA8D1	Visual Wake Words	Top-1: 85.4%
EK-RA8D1	Keyword Spotting	Top-1: 90.1%
EK-RA8D1	Anomaly Detection	AUC: 0.86
EK-RA8D1	Image Classification	Top-1: 87.5%

For each SUT, is the benchmark Accuracy/AUC target met? (Not a requirement for the Open division) (check all that apply):

- ✓ Yes (Visual Wake Words ... 80% Accuracy)
- ✓ Yes (Keyword Spotting ... 90% Accuracy)
- ✓ Yes (Anomaly Detection ... 0.85 AUC)
- ✓ Yes (Image Classification ... 85% Accuracy)
- ☐ No, for some combination of benchmark, scenario and SUT

For each SUT and benchmark, did the submission run on the whole validation set in accuracy mode? (check one):

- ✓ Yes
- □ No

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For each SUT and benchmark, does the submission use the EEMBC Runner? (check one) ✓ Yes □ No
For each SUT and benchmark, is the same code run in accuracy and performance modes? (check one) ✓ Yes □ No
Are the weights calibrated using data outside of the official calibration set? (check one) ☐ Yes ✓ No
What numerics does the submission use? (check all that apply) □ INT4 ✓ INT8 □ INT16 □ UINT8 □ UINT16 □ FP11 □ FP16 □ BF16 □ BF16 □ FP32 □ Other, please specify:
What backend does the submission use? (check all that apply) ☐ Vendor backend, please name: ✓ TF-Lite Micro ☐ Micro TVM ☐ Other, please specify:
Which of the following caching techniques does the submission use? (check all that apply, ideally none): Caching Inputs between iterations Caching responses between iterations Caching intermediate computations between iterations
Which of the following techniques does the submission use? (check all that apply, ideally none submitting to the closed division.) Quantization aware training Wholesale weight replacement Weight supplements Discarding non-zero weight elements

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	Pruning Modifying weights during the timed portion of an inference run Hard coding the total number of queries None of the above
	ubmission congruent with all relevant MLPerf rules? Yes No
If the ar	nswer to the above question is no, please explain:
	h SUT, have you filled out the JSON system description file? Yes No
	h SUT, does the submission accurately reflect the real-world performance of the SUT? Yes No
✓ ✓ □ (✓	our submission include the following: (check all that apply) System description file Code that implements the benchmarks Code/scripts that train the model(s) (Open Division) Metadata that describes each system-implementation combination tested Scripts that set up and execute each system implementation tested Result logs for each system implementation tested
\checkmark	This Checklist