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

Name of Certifying Engineer(s): Alexander Montgomerie-Corcoran Email of Certifying Engineer(s): am9215@ic.ac.uk
Name(s) of System Under Test: ZedBoard, ZC706, ZyBo, Cora-Z7
Division (check one):
☐ Open
x Closed
Category (check one):
x Available
☐ Preview
☐ Research, Development, and Internal (RDI)
Benchmark(s) (check all that apply):
x Visual Wake Words
x Keyword Spotting
x Anomaly Detection
x Image Classification

Please fill in the following table adding lines as necessary:

System Under Test Name	Benchmark	Accuracy/AUC
ZedBoard	IC	86.0%/0.94
ZedBoard	KWS	91.1%/0.96
ZedBoard	vww	84.8%/0.85
ZC706	IC	86.0%/0.94
ZC706	vww	85.2%/0.86
ZyBo	IC	85.5%/0.94
ZyBo	KWS	91.0/0.96
Cora-Z7	KWS	91.0/0.96

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

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

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mode? (check one): x Yes No
For each SUT and benchmark, does the submission use the EEMBC Runner? (check one) x Yes ☐ No
For each SUT and benchmark, is the same code run in accuracy and performance modes? (check one) x Yes No
Are the weights calibrated using data outside of the official calibration set? (check one) \(\subseteq \text{Yes} \) x No
What numerics does the submission use? (check all that apply) INT4 INT8 INT16 UINT8 UINT16 FP11 FP16 BF16 BF22 Other, please specify: INT9
What backend does the submission use? (check all that apply) Vendor backend, please name: TF-Lite Micro Micro TVM Other, please specify: fpgaConvNet
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 if

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submitting to the closed division.) Quantization aware training Wholesale weight replacement Weight supplements Discarding non-zero weight elements Pruning Modifying weights during the timed portion of an inference run Hard coding the total number of queries x None of the above
Is the submission congruent with all relevant MLPerf rules? X Yes ☐ No
If the answer to the above question is no, please explain:
For each SUT, have you filled out the JSON system description file? X Yes No
For each SUT, does the submission accurately reflect the real-world performance of the SUT? X Yes No
Does your submission include the following: (check all that apply) x System description file x Code that implements the benchmarks Code/scripts that train the model(s) (Open Division) x Metadata that describes each system-implementation combination tested x Scripts that set up and execute each system implementation tested x Result logs for each system implementation tested x This Checklist