Name of Certifying Engineer(s):
Email of Certifying Engineer(s):
Name(s) of System Under Test:

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
PCL Scepu02	Visual Wake Words	85.40%
PCL Scepu02	Keyword Spotting	90.10%
PCL Scepu02	Anomaly Detection	AUC: 0.86
PCL Scepu02	Image Classification	86.5%

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

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
- ✓ 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 if 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
- ❏ None of the above

Is the submission congruent with all relevant MLPerf rules?
- ✓ 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?
- ✓ Yes
- ❏ No

For each SUT, does the submission accurately reflect the real-world performance of the SUT?
- ✓ Yes
- ❏ No

Does your 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
- ✓ This Checklist