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

Name of Certifying Engineer(s): Elsa Ariansen Email of Certifying Engineer(s): elsa.ariansen@silabs.com Name(s) of System Under Test: xG24-DK2601B
Division (check one): ☐ Open ✓ Closed
Category (check one): ✓ Available □ Preview

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:

☐ Research, Development, and Internal (RDI)

System Under Test Name	Benchmark	Accuracy/AUC
xG24-DK2601B	Visual Wake Words	84.7%
xG24-DK2601B	Keyword Spotting	90.3%
xG24-DK2601B	Image Classification	87.5%
xG24-DK2601B	Anomaly Detection	0.86

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
•	163

□ No

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✓	Ich SUT and benchmark, does the submission use the EEMBC Runner? (check one) Yes No
	sch SUT and benchmark, is the same code run in accuracy and performance modes?
(check	,
	Yes
	No
Are the	e weights calibrated using data outside of the official calibration set? (check one)
	Yes
✓	No
What i	numerics does the submission use? (check all that apply)
	INT4
\checkmark	INT8
	INT16
	UINT8
	UINT16
	FP11
	FP16
	BF16
	FP32
	Other, please specify:
What I	packend does the submission use? (check all that apply)
	Vendor backend, please name:
✓	TF-Lite Micro
	Micro TVM
	Other, please specify:
	of the following caching techniques does the submission use? (check all that apply,
•	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
submi	tting to the closed division.)
	Quantization aware training
	Wholesale weight replacement
	Weight supplements

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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
submission congruent with all relevant MLPerf rules? Yes No
answer to the above question is no, please explain:
ch SUT, have you filled out the JSON system description file? Yes No
ch SUT, does the submission accurately reflect the real-world performance of the SUT? Yes No
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