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

Name of Certifying Engineer(s): Jeremy Holleman

Email of Certifying Engineer(s):jere Name(s) of System Under Test: NE		O (chip)
Division (check one): ☐ Open Closed		
Category (check one): ✓ Available □ Preview □ Research, Development, ar	nd Internal (RDI)	
Benchmark(s) (check all that apply) ✓ Visual Wake Words ✓ Keyword Spotting □ Anomaly Detection ✓ Image Classification Please fill in the following table add		
System Under Test Name	Benchmark	Accuracy/AUC
Syntiant NDP120 at 0.9V/30MHz	KWS	91.1%
Syntiant NDP120 at 0.9V/30MHz	VWW	84.8%
Syntiant NDP120 at 0.9V/30MHz	IC	86.0%
For each SUT, is the benchmark Addivision) (check all that apply): Yes (Visual Wake Word Yes (Keyword Spotting Yes (Anomaly Detection Yes (Image Classificati	ds 80% Accuracy) 90% Accuracy) 0.85 AUC)	ot a requirement for the Open

□ No, for some combination of benchmark, scenario and SUT

mode? (check one):
☐ ✓ Yes

□ No

For each SUT and benchmark, did the submission run on the whole validation set in accuracy

For each SUT and benchmark, does the submission use the EEMBC Runner? (check one)	
□ V 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	
□ V No	
What numerics does the submission use? (check all that apply)	
□ INT4	
□ I NT8	
□ ☑ INT16	
□ ☑ UINT8	
□ UINT16	
□ FP11	
□ FP16	
□ BF16	
□ FP32	
☐ Other, please specify:	
What backend does the submission use? (check all that apply)	
Vendor backend, please name: Syntiant Training Development Kit (TDK), SDK	
☐ 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.)	if
Quantization aware training	

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	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 a	answer to the above question is no, please explain:
For ea	ich SUT, have you filled out the JSON system description file? Yes
	No
	ach 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
_	This Checklist