## 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):jeremy@syntiant.com
Name(s) of System Under: NDP9120 (board) with NDP120 (chip)
Division (shock one):
Division (check one):
X Open
☐ 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
□ Anomaly Detection
X Image Classification

Please fill in the following table adding lines as necessary:

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%
Syntiant NDP120 at 1.1V/98MHz	KWS	91.1%
Syntiant NDP120 at 1.1V/98MHz	vww	84.8%
Syntiant NDP120 at 1.1V/98MHz	IC	86.0%

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 )

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☐ Yes (Anomaly Detection 0.85 AUC)
X Yes (Image Classification 85% Accuracy)
X 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):  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)  ☐ Yes  X No
What numerics does the submission use? (check all that apply)  INT4  X INT8  X INT16  UINT8  UINT16  FP11  FP16  BF16  FP32  Other, please specify:
What backend does the submission use? (check all that apply) X Vendor backend, please name:Syntiant Interface Library  TF-Lite Micro  Micro TVM  Other, please specify:
Which of the following caching techniques does the submission use? (check all that apply,

ideally none): None

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	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
	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?
X,	Yes
	No
If the a	answer to the above question is no, please explain:
X,	ich SUT, have you filled out the JSON system description file? Yes No
X,	ch SUT, does the submission accurately reflect the real-world performance of the SUT? Yes No
X : X : X : X : X : X : X : X : X : X :	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