



**MICROCHIP**

**QUALIFICATION REPORT SUMMARY**

**PCN #: RMES-07PLRU484**

**Date**

**July 18, 2019**

**Qualification of MTAI as an additional final test site for selected ATSAM21J17xx and ATSAM21J18xx Atmel device families available in 64L TQFP (10x10x1.0mm) package.**

**Purpose:** Qualification of MTAI as an additional final test site for selected ATSAM21J17xx and ATSAM21J18xx Atmel device families available in 64L TQFP (10x10x1.0mm) package.

**CCB No.:** 3441.001

Test / Evaluation	Test Conditions / Parameters	Remarks
Datalog / Bin Comparison	<ul style="list-style-type: none"> <li>• Compare test numbers, test names, test sequence bin assignments &amp; pass/fail results</li> <li>• Accept if all match or justify the differences</li> </ul>	PASSED
Site by Site verification	<ul style="list-style-type: none"> <li>• Verifies the channel map has the correct site assignments and tester/handler communications work correctly</li> </ul>	PASSED
Correlation lot report	<ul style="list-style-type: none"> <li>• Yield at each step and reject analysis between systems. 5K units are tested for each program conversion we perform.</li> <li>• Accept on yield match within 1%</li> </ul>	PASSED
Unit to unit parametric correlation	<ul style="list-style-type: none"> <li>• A full assembly strip characterized on both systems and graphed vs each other &amp; the data sheet limits</li> </ul>	PASSED
Test stability	<ul style="list-style-type: none"> <li>• 50 loop test performed with no datalog delays</li> <li>• Accept on 0 fails</li> </ul>	PASSED
Parametric test stability verification	<ul style="list-style-type: none"> <li>• Use Real Time Statistics software to create CPK report of all parametric tests</li> <li>• Accept on Cpk &gt; 1.67 or explainable</li> </ul>	PASSED