

## Product Change Notice (PCN)

**Subject:** Add Carsem, Malaysia as Alternate Test Location for F0424NTGK (8)

**Publication Date:** 10/15/2020

**Effective Date:** 1/15/2021

**Revision Description:**

Initial Release

**Description of Change:**

Renesas is adding Carsem, Malaysia as an alternate Test location for the above mentioned products as a result of disengagement of the current qualified Test location, Giga Solution at Taiwan with effect from December 31, 2020.

This change will continue to allow Renesas the flexibility to ship from the qualified test facilities at REPG, Malaysia and Carsem, Malaysia and will provide the increased capacity, flexibility and shorter lead time to meet market demand.

There is no change in the Test processing flows including load board and test handler. Tester platform will differ. Renesas has completed the electrical test correlation and based on the test results we do not anticipate any impact on device performance. The testing is fully compatible and transferrable between the qualified test facilities with no change to the test coverage.

Refer to Appendix A for comparison.

**Affected Product List:** F0424NTGK, F0424NTGK8.

**Reason for Change:**

To provide dual source and flexibility of supply.

**Impact on Fit, Form, Function, Quality & Reliability:**

The change will have no impact on the form, fit, function, quality, reliability and environmental compliance of the products.

**Product Identification:**

Traceability to the test location is maintained by Renesas and the information is available on request.

**Electrical Test Correlation Status:** Completed. Refer Appendix B

**Sample Availability Date:** 11/6/2020

**Correlation report:** Available on request

## Note:

1. Acknowledgement must be received by Renesas within 30 days or Renesas will consider the change as approved.
2. If timely acknowledgement is provided by Customer, then Customer shall have 90 days from the date of receipt of this PCN to make any objections to this PCN. If Customer fails to make objections to this PCN within 90 days of the receipt of the PCN then Renesas will consider the PCN changes as approved.
3. If customer cannot accept the PCN then customer must provide Renesas with a last time buy demand and purchase order.

**For additional information regarding this notice, please contact [idt-pcn@lm.renesas.com](mailto:idt-pcn@lm.renesas.com)**

**Appendix A – Test Equipment & Flow Comparison**

Descriptions	Existing Test (REPG, Malaysia)	Alternate Test (Carsem, Malaysia)
Tester Platform	J750	Aemulus
Test Handler	SRM	SRM
Loadboard	REPG DUT board	REPG DUT board
Test Site	Single Site	Quad Site
Test Socket	Johnstech	Johnstech
Test Insertion	Single insertion	Single insertion
Test Temperature	25°C	25°C
Test Coverage	Same	Same
Test Program	REPG test program	Aemulus test program

**Appendix B – Electrical Test Correlation Results**

**Vehicle:** F0424NTGK

**Sample size:** 1034 electrically good units tested by test handler  
 10 good and 3 reject units tested manually hand test

Descriptions	Existing Test ( REPG, Malaysia)	Alternate Test (Carsem, Malaysia)
10 good units manual test datalog correlation	Passed	Passed
Test Correlation Results	100%	100%
4 good units Loop Test datalog	Passed	Passed
Number of Loop Test	100	100
4 good units Site-to-site Rotation Test datalog	Passed	Passed
3 reject units + 1 good unit datalog	Passed	Passed
Number of Good Units tested via test handler buyoff	1034 units	1034 units
1034 good units datalog	Passed	Passed

*Note: Electrical Test Correlation are conducted follow the test conditions per Appendix A*