

Product Change Notice (PCN)

Subject: Add KESP, Malaysia as Alternate Test Location and REPG, Malaysia as Alternate Backend Location

Publication Date: 7/26/2023

Effective Date: 10/25/2023

Revision Description:

Initial Release

Description of Change:

Renesas is adding KESP, Malaysia as an alternate Test location and REPG, Malaysia as an alternate Backend location for the select part#. MEMS Vision, Canada is the current Test and Backend location.

This change will allow flexibility to ship from either facility and will provide the increased capacity, flexibility and shorter lead time to meet market demand. 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 test facilities with no change to the test coverage.

Affected Product List: Refer Appendix B.

Reason for Change:

To provide increased capacity.

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 and Backend location is available on request.

Qualification Status: Sensor accuracy and electrical characterization completed successfully. Refer Appendix A

Sample Availability Date: 8/8/2023

Device Material Declaration: Not applicable

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

Appendix A – Sensor Accuracy and Electrical Characterization Results

Qual Vehicle: HS3001

Sample size: 69 Samples were used for the comparison

i)Test

Descriptions	Existing Final Test Location (MEMS Vision, Canada)	Alternate Final Test Location (KESP, Malaysia)
Tester Platform/Chamber	MV Test Instrument /Associated Environmental System	MV Test Instrument /Associated Environmental System
Loadboard	MVH3000D Series Test Board	MVH3000D Series Test Board
Loading/Unloading machine	SMTmax QM1100-A	Pentamaster PTSWB6001 & PTSWB6002
Test Program	MEMS Vision calibration software HS3000_PROD	MEMS Vision calibration software HS3000_PROD
Test Correlation Results	All sensors meet specifications (Humidity accuracy and Temperature sensor accuracy)	All sensors meet specifications (Humidity accuracy and Temperature sensor accuracy)
Number of Good Units	69 units	69 units

ii)Backend

Descriptions	Existing Backend Location (MEMS Vision, Canada)	Alternate Backend Location (REPG, Malaysia)
Pick and Place; Tape and Reel Equipment	V-TEK TM-403	Vitrox3000i
AOI	10x magnification (manual)	Vitrox3000i (machine)
Carrier Tape & Cover Tape	Same	Same
Plastic Reel	Same except Supplier: Advantek	Same except Supplier: UNITED NEWTECH
Labeling	Same *	Same

*Labeling perform at Renesas

Appendix B – Affected Product List

HS3001	HS3102	HS4011	HS4111
HS3002	HS3103	HS4013	HS4113
HS3003	HS4001	HS4101	
HS3101	HS4003	HS4103	