

## Product Change Notification

PCN#: V21-012-F-MA0  
Issue Date: Aug 20, 2021

**Change Type:**

Addition of a manufacturing line with an existing qualified manufacturing factory in Vietnam for the following product(s).

**Parts Affected:**

Broadcom Part Numbers
AFBR-89CDHZ-xxx
AFBR-89CTHZ-xxx
AFBR-89CEHZ-xxx

**Description and Extent of Change:**

Qualified CM (ShunYun-China) to implement an alternate manufacturing site location for product assembly and test. All processes will be replicated at the new Vietnam site. No changes made to product specifications at this new site. The existing location (China) will continue support shipments.

**Reasons for Change:**

Improve product supply assurance and resiliency.

**Effect of Change on Fit, Form, Function, Quality, or Reliability:**

The device specification will remain the same, which will ensure product electrical performance remains the same. Appropriate electrical characterization and reliability qualification will be performed on representative products to insure normal parametric distribution, consistent electrical performance, and reliability.

**Effective Date of Change:**

Product shipments will be available from this new location starting December 1, 2021 but shipments from this location will vary depending on site qualification completion, customer acceptance, and inventory levels. Please contact Broadcom for product specific schedule and availability.

**Qualification Data:**

Qualification data is shown in Table 1.

**Table 1: Module Qualification Test Summary**

Leg	Test	Reference	Condition	Result
1	High Temperature Operating Life (HTOL)	GR-468-CORE	Tcase= 70°C, VCC =3.3 volt	Passed
2	Biased Damp Heat (BDH)	MIL-STD-202 Method 103	Tcase = 70°C, RH=85% Vcc=3.3V	Passed
3	Temperature Cycling (TMCL)	MIL-STD-883 Method 1010	Ta = -40°C to Tmax = 85°C	Passed
4a	Mechanical Shock (MS)	MIL-STD-883 Method 2002	1500G (peak), 0.5ms, 5 pulses/axis, 6 axis	Passed
4b	Mechanical Vibration (MV)	MIL-STD-883 Method 2007	20–2000Hz, 20G 4min/cycle, 4cycle/axis, 3 axis	
5	Good Device Analysis (GDA)	X-Ray, X-Section	One new unstress sample and one sample from TMCL after 500cycs	Passed

**Recommended Actions to be taken by Customer:**

No qualification recommended as no change to product. Contact Local Sales for clarification.

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These changes have been reviewed and approved by Broadcom engineers and managers per Broadcom’s procedure. Please contact your Broadcom Field Sales Engineer or Contact Center (<https://www.broadcom.com/company/contact/>) for any questions or support requirements.