

Product Change Notice

Issue Date: August 04, 2020

Change Type:

Add Assembly Production Site – ASE Taiwan

Parts Affected:

Broadcom Part Numbers	Description
BCM50991LB0IFEBG	8x8mm Single, 5G/2.5G without 1588 I-temp
BCM50991LB0KFEBG	8x8mm Single, 5G/2.5G without 1588 C-temp
BCM50998EB0KFSBG	15x15mm Octal, 2.5G PHY without 1588 PTP C-temp w/ HS
BCM50998ESB0KFSBG	19x19mm Octal, 2.5G PHY without 1588 PTP C-temp w/ HS
BCM50998SB0KFSBG	19x19mm Octal, 5G/2.5G PHY without 1588 PTP C-temp w/ HS
BCM54991B0IFSBG	11x11mm Single, 5G/2.5G I-temp
BCM54991B0KFSBG	11x11mm Single, 5G/2.5G C-temp
BCM54991EB0IFSBG	11x11mm Single, 2.5G I-temp
BCM54991EB0KFSBG	11x11mm Single, 2.5G C-temp
BCM54991ELB0IFEBG	8x8mm Single, 2.5G I-temp
BCM54991ELB0KFEBG	8x8mm Single, 2.5G C-temp
BCM54991ELMA0KFEBG	8x8mm Single, 2.5G MACsec C-temp
BCM54991EMA0IFSBG	11x11mm Single 2.5G MACsec I-temp
BCM54991EMA0KFSBG	11x11mm Single 2.5G MACsec C-temp
BCM54991HB0IFSBG	11x11mm Single, 10G with 5G/2.5G Long Reach I-temp
BCM54991LB0IFEBG	8x8mm Single, 5G/2.5G I-temp
BCM54991LB0KFEBG	8x8mm Single, 5G/2.5G C-temp
BCM54991LMA0IFEBG	8x8mm Single, 5G/2.5G MACsec I-temp
BCM54991LMA0KFEBG	8x8mm Single, 5G/2.5G MACsec C-temp
BCM54991MA0IFSBG	11x11mm Single, 5G/2.5G MACsec I-temp
BCM54991MA0KFSBG	11x11mm Single, 5G/2.5G MACsec C-temp
BCM54991SKB0KFSBG	11x11mm Single, 2-Pair High Speed C-temp
BCM54992B0IFSBG	13x13mm Dual, 5G/2.5G I-temp
BCM54992B0KFSBG	13x13mm Dual, 5G/2.5G C-temp
BCM54992EB0IFSBG	13x13mm Dual, 2.5G I-temp
BCM54992EB0KFSBG	13x13mm Dual, 2.5G C-temp
BCM54992EMA0IFSBG	13x13mm Dual, 2.5G MACsec I-temp
BCM54992EMA0KFSBG	13x13mm Dual, 2.5G MACsec C-temp
BCM54992MA0IFSBG	13x13mm Dual, 5G/2.5G MACsec I-temp
BCM54992MA0KFSBG	13x13mm Dual, 5G/2.5G MACsec C-temp
BCM54994B0IFSBG	17x17mm Quad, 5G/2.5G PHY I-temp w/ HS
BCM54994B0KFSBG	17x17mm Quad, 5G/2.5G PHY C-temp w /HS

BCM54994EB0IFSBG	17x17mm Quad, 2.5G PHY I-temp w/ HS
BCM54994EB0KFSBG	17x17mm Quad, 2.5G PHY C-temp w/ HS
BCM54994EMA0IFSBG	17x17mm Quad, 2.5G MACsec PHY I-temp w/ HS
BCM54994EMA0KFSBG	17x17mm Quad, 2.5G MACsec PHY C-temp w/ HS
BCM54994HB0IFSBG	17x17mm Quad, 10G with 5G/2.5G Long Reach I-temp w/ HS
BCM54994MA0IFSBG	17x17mm Quad, 5G MACsec PHY I-temp w/ HS
BCM54994MA0KFSBG	17x17mm Quad, 5G MACsec PHY C-temp w/ HS
BCM54994SKB0KFSBG	17x17mm Quad, 2-Pair High Speed C-temp w/ HS
BCM54998B0KFSBG	15x15mm Octal, 5G/2.5G PHY C-temp w/ HS
BCM54998EB0KFSBG	15x15mm Octal, 2.5G PHY C-temp w/ HS
BCM54998ESB0KFSBG	19x19mm Octal, 2.5G PHY C-temp w/ HS
BCM54998SB0KFSBG	19x19mm Octal, 5G/2.5G PHY C-temp w/ HS
BCM84880B0IFEBG	11x11mm Single, 5G/2.5G I-temp without HS
BCM84880B0IFSBG	11x11mm Single, 5G/2.5G I-temp with HS
BCM84880B0KFEBG	11x11mm Single, 5G/2.5G C-temp without HS
BCM84880B0KFSBG	11x11mm Single, 5G/2.5G C-temp with HS
BCM84881B0IFEBG	11x11mm Single, 10G I-temp without HS
BCM84881B0IFSBG	11x11mm Single, 10G I-temp with HS
BCM84881B0KFEBG	11x11mm Single, 10G C-temp without HS
BCM84881B0KFSBG	11x11mm Single, 10G C-temp with HS
BCM84884B0IFEBG	23x23mm Quad, 5G/2.5G PHY I-temp w/o HS
BCM84884B0IFSBG	23x23mm Quad, 5G/2.5G PHY I-temp w/ HS
BCM84884B0KFEBG	23x23mm Quad, 5G/2.5G PHY C-temp w/o HS
BCM84884B0KFSBG	23x23mm Quad, 5G/2.5G PHY C-temp w/ HS
BCM84884EB0KFSBG	19x19mm Quad, 5G/2.5G PHY C-temp w/ HS
BCM84885B0KFEBG	17x17mm Dual, 5G/2.5G C-temp without HS
BCM84886B0IFEBG	17x17mm Dual, 10G/5G/2.5G I-temp without HS
BCM84886B0KFEBG	17x17mm Dual, 10G/5G/2.5G C-temp without HS
BCM84887B0KFSBG	23x23mm Dual Combo, 10G/5G/2.5G C-temp with HS
BCM84888B0IFEBG	23x23mm Quad, 10G/5G/2.5G PHY I-temp w/o HS
BCM84888B0IFSBG	23x23mm Quad, 10G/5G/2.5G PHY I-temp w/ HS
BCM84888B0KFEBG	23x23mm Quad, 10G/5G/2.5G PHY C-temp w/o HS
BCM84888B0KFSBG	23x23mm Quad, 10G/5G/2.5G PHY C-temp w/ HS
BCM84888EB0KFSBG	19x19mm Quad, 10G/5G/2.5G PHY C-temp w/ HS
BCM84891B0IFSBG	11x11mm Single, 10G/5G/2.5G I-temp
BCM84891B0KFSBG	11x11mm Single, 10G/5G/2.5G C-temp
BCM84891LB0IFEBG	8x8mm Single, 10G/5G/2.5G I-temp
BCM84891LB0KFEBG	8x8mm Single, 10G/5G/2.5G C-temp
BCM84891LMA0IFEBG	8x8mm Single, 10G/5G/2.5G MACsec I-temp
BCM84891LMA0KFEBG	8x8mm Single, 10G/5G/2.5G MACsec C-temp
BCM84891MA0IFSBG	11x11mm Single, 10G/5G/2.5G MACsec I-temp
BCM84891MA0KFSBG	11x11mm Single, 10G/5G/2.5G MACsec C-temp

BCM84892B0IFSBG	13x13mm Dual, 10G/5G/2.5G I-temp
BCM84892B0KFSBG	13x13mm Dual, 10G/5G/2.5G C-temp
BCM84892MA0IFSBG	13x13mm Dual, 10G/5G/2.5G MACsec I-temp
BCM84892MA0KFSBG	13x13mm Dual, 10G/5G/2.5G MACsec C-temp
BCM84894B0IFSBG	17x17mm Quad, 10G/5G/2.5G PHY I-temp w/ HS
BCM84894B0KFSBG	17x17mm Quad, 10G/5G/2.5G PHY C-temp w/ HS
BCM84894MA0IFSBG	17x17mm Quad, 10G/5G/2.5G MACsec PHY I-temp w/ HS
BCM84894MA0KFSBG	17x17mm Quad, 10G/5G/2.5G MACsec PHY C-temp w/ HS
BCM84896B0KFEBG	19x19mm Octal, 10G/1G PHY C-temp w/o HS
BCM84896B0KFSBG	19x19mm Octal, 10G/1G PHY C-temp w/ HS
BCM84898B0KFEBG	19x19mm Octal, 10G/5G/2.5G PHY C-temp w/o HS
BCM84898B0KFSBG	19x19mm Octal, 10G/5G/2.5G PHY C-temp w/ HS

Description and Extent of Change:

Add ASE Taiwan as the assembly supplier for the above device

Reasons for Change:

Supply Chain manufacturing flexibility and capacity

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

There will be no change in fit, form, function, quality or reliability

Effective Date of Change:

Nov 02, 2020

Software / Firmware Update:

There will be no changes in Software / Firmware.

Qualification Data:

Package Qualification Reference #1: 004712
 Fab Technology: 16nm
 Package Type: FCBGA+HS
 Package Size: 19x19 mm
 Lead Count: 484

Stress Test	Condition	Read points	Sample Size	Requirements	Results (# fail/ss)
		Cycles / Hrs.			
Precondition	MSL3 JEDEC Std. 22-A113G		154 units	0 failures	To be complete by 8/15/2020
Temp Cycle	-55°C / 125°C JEDEC Std. 22-A104-E Cond. B	1000 cycles	77 units	0 failures	To be complete by 8/15/2020
uHast	130°C/85%RH JEDEC Std. 22-A118-B	96hrs	77 units	0 failures	To be complete by 8/15/2020
HTSL	TA=150°C	1000 hrs	77 units	0 failures	To be complete by 8/15/2020



Package Qualification Reference #2: 004487
Fab Technology: 28nm
Package Type: FCBGA+HS
Package Size: 35 x 35
Lead Count: 1413

Stress Test	Condition	Read points	Sample Size	Requirements	Results (# fail/ss)
		Cycles / Hrs.			
Precondition	MSL3 JEDEC Std. 22-A113G		154 units	0 failures	0 / 154
Temp Cycle	-55°C / 125°C JEDEC Std. 22-A104-E Cond. B	1000 cycles	77 units	0 failures	0 / 77
uHast	130°C/85%RH JEDEC Std. 22-A118-B	96hrs	77 units	0 failures	0 / 77
HTSL	TA=150°C	1000 hrs	77 units	0 failures	0 / 77

Please contact your Broadcom field sales engineer or Contact Center for any questions or support requirements. Please return any response as soon as possible, but not to exceed 30 days.