

Product Change Notification

PCN No.	PCN_EC25&EC21&EC20_20180711_EN	Date of Issue (DD/MM/YYYY)	11/07/2018
1. General Information			
Types of Change	PCB Manufacturing Process Change		
Description of Changes	Super-roughening process will be implemented in PCB manufacturing for Quectel EC25&EC21&EC20 series modules to increase the copper surface roughness. Such technology is a chemical process and will not impact other functions of the modules.		
Reasons of Change	In order to improve the reliability and increase the capacity, the super-roughening technology, a commonly used process in the copper surface pre-treatment, is introduced to optimize the PCB manufacturing process.		
2. Information for Affected Products			
Affected Products Information			
Model	Hardware Version	Ordering Code	
EC21-A	R1.0	EC21AFA-512-STD/ EC21AFA-512-SPY	
EC21-AU	R1.0	EC21AUFA-512-STD	
EC21-AUT	R1.0	EC21AUTFB-512-STD	
EC21-AUTL	R1.0	EC21AUTLFA-512-STD	
EC21-E	R1.0	EC21EFA-512-STD	
EC21-J	R1.0	EC25JFA-512-STD/ EC25JFA-512-DCM	
EC21-AUV	R1.0	EC21AUVFA-512-STD	
EC21-KL	R1.0	EC21KLFA-512-STD/ EC21KLFA-512-SKT	
EC21-V	R1.0	EC21VFA-512-STD	
EC21-VD	R1.0	EC21VDFA-512-STD/ EC21VDFA-512-SPY	
EC25-E	R1.0	EC25EFA-512-STD/ EC25EFA-512-SKT	
EC25-J	R1.0	EC25JFA-512-STD/ EC25JFA-512-SBK/ EC25JFA-512-DCM	
EC25-A	R1.0	EC25AFA-512-STD/ EC25AFA-512-UOV	

EC25-AU	R1.0	EC25AUFA-512-STD
EC25-AUT	R1.0	EC25AUTFA-512-STD
EC25-AUTL	R1.0	EC25AUTLFB-512-SNAS
EC25-V	R1.0	EC25VFA-512-STD
EC20-C	R2.0	EC20CFA-512-STD
EC20-CE	R2.0	EC20CEFA-512-STD
EC20-CE	R2.1	EC20CEFAG-512-SGNS
EC20-CE	R2.1	EC20CEFAG-512-SGNSX
EC21-A MINIPCIE	R1.0	EC21AFA-MINIPCIE
EC21-AU MINIPCIE	R1.0	EC21AUFA-MINIPCIE
EC21-AUT MINIPCIE	R1.0	EC21AUTFB-MINIPCIE
EC21-E MINIPCIE	R1.0	EC21EFA-MINIPCIE
EC21-J MINIPCIE	R1.0	EC25JFA-MINIPCIE/ EC25JFA-MINIPCIE-DCM
EC21-KL MINIPCIE	R1.0	EC21KLFA-MINIPCIE/ EC21KLFA-MINIPCIE-SKT
EC21-V MINIPCIE	R1.0	EC21VFA-MINIPCIE
EC25-E MINIPCIE	R1.0	EC25EFA-MINIPCIE/ EC25EFA-MINIPCIE-SKT
EC25-J MINIPCIE	R1.0	EC25JFA-MINIPCIE/ EC25JFA-MINIPCIE-SBK/ EC25JFA-MINIPCIE-DCM
EC25-A MINIPCIE	R1.0	EC25AFA-MINIPCIE
EC25-AU MINIPCIE	R1.0	EC25AUFA-MINIPCIE
EC25-V MINIPCIE	R1.0	EC25VFA-MINIPCIE
EC20-CE MINIPCIE-	R2.0	EC20CEFA-MINIPCIE
EC20-CE MINIPCIE	R2.1	EC20CEFAG-MINIPCIE

Affected Products Release Time:

Samples for Affected Products will be available from 25/07/2018 (DD/MM/YYYY).

Switch Time:

Affected Products will be started shipping to customers from 30/08/2018 (DD/MM/YYYY) if no statement received.

3. Impacts of the Change

Risk Assessment	1. The super-roughening process may cause a slight color deviation on the PCB, no other risks will be added.
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	2. The ordering codes remain unchanged.
Suggested Implementation Plan	Through rigorous and complete testing, Quectel confirms that EC25&EC21&EC20 series modules that adopt super-roughening process can fully meet the qualification and performance requirements. Therefore, customers can feel secure to use them.
4. Customer Acknowledgement of Receipt	
<p>Please acknowledge receipt of this change notification by replying to info_PCN@quectel.com.</p> <p>If no feedback is received within 30 days after the issue date of this notification, then Quectel may accept that this change has been tacitly accepted and can implement the change as indicated above.</p>	

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