

Product Change Notice
(PCN Tracking Number: EE-QR-211014-01)

Version: 1

Customer:	ALL Custor	ALL Customers			
Renesas Product Ty	-	USB3.0 Host/Hubb controller devices UPD720201K8-xxx-BAC-A, UPD720202K8-xxx-BAA-A, UPD720210K8-BAF-A			
Description of Chan	Assembly: Test:	Introduction of additional assembly and test sites: Assembly: PTI/Greatek (Powertech Technology, Group Greatek Electronics) Test: Sigurd-UTC (Sigurd UTC Corporation) Booking Part Numbers remain unchanged!			
Reason for Change:	Increase of	f production capacity			
Identification:	Identifiable	via date code and package marking			
Schedules:	Qualificatio Requested	Sample delivery: b/o Feb. 2022 Qualification report: b/o Mar. 2022 Requested approval e/o Mar. 2022 Change Implementation Apr. 2022			
Anticipated Impact:	Fit: Sligl Ren	Form & Function: None Fit: Slight dimension difference in exposed-PAD size of UPD720210K8. Renesas judges the impact on customer's implementation is minor. Quality & Reliability: None			
Doc. No.:	EEQC-PC	N-CR-21-2058			
Internal Reference:	APTE4-BB	-21-0006			
In case of any question	n, please contact:				
In case of any question INITIATOR	n, please contact:	E-mail	PHONE No.		
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INITIATOR Farhad Banihashemi	TITLE Staff Engineer 1 Donse:	farhad.banihashemi@renesas.com			
INITIATOR Farhad Banihashemi Düsseldorf, 14.10.202 Customer Resp (please fill in and retu acknowledge	TITLE Staff Engineer 1 Donse:	farhad.banihashemi@renesas.com			
INITIATOR Farhad Banihashemi Düsseldorf, 14.10.202 Customer Resp (please fill in and retu	TITLE Staff Engineer 1 OONSE: urn by e-mail, fax or comment) Name	farhad.banihashemi@renesas.com mail) Company: & Position:	+49-211-6503-1844		
INITIATOR Farhad Banihashemi Düsseldorf, 14.10.202 Customer Resp (please fill in and retu acknowledge acceptable inacceptable (pls. o not applicable Note: Acknowledgeme approved. If timely ack of receipt of this PCN i PCN within 90 days of	Staff Engineer 1 OONSE: comment) Name Phone ant must be received to the property of the PCN, they must	farhad.banihashemi@renesas.com mail) Company:	+49-211-6503-1844 Il consider the change as nave 90 days from the date o make objections to this anges as approved. If		



Details of Change:

Comparison Table:

Item¤		New (Adding site)¤	Current1¤	Current2¤	3
Assembly¤	Assembly-Company¤	PTI/Greatek¤	ASE-Shanghai¤	SPIL¤	3
	Assembly-Country¤	Taiwan¤	China¤	Taiwan¤	3
	Assembly-location¤	Zhunan¤	Shanghai¤	Taichung¤	3
	Package outline¤	See-page-2¤	See-page-2¤	See page 2	2
	Lead-frame¤	Cu¤	Cu¤	Cu¤	2
	Molding-material¤	Epoxy-resin¤	Epoxy-resin¤	Epoxy-resin¤	1
	Outer-lead-plating¤	Pure-Sn¤	Pure-Sn¤	Pure-Sn¤	2
	Wire bonding¤	Cu¤	Cu¤	Cu¤	2
	Die bond material¤	Ag paste¤	Ag paste¤	Ag-paste¤	1
	Marking¤	See-page-3¤	See page 3¤	See-page-3¤	1
Final-test¤	Final-testing-Company¤	Sigurd-UTC¤	GTC¤	GTC¤	1
¤	Final-testing Country¤	Taiwan¤	Taiwan¤	Taiwan¤	2
¤	Final-testing location¤	<u>Hsin</u> -chu¤	<u>Hsin</u> -chu¤	<u>Hsin</u> -chu¤	3
Packing¤	Shipping form (Tray)¤	See-pages-4-5¤	See pages-4-5¤	See pages 4-5¤	2

Package Outline Specification:

Table 1-1 UPD720201K8 package outline specification

Item	New	Current
Package type	68pin QFN w/ exposed pad	68pin QFN w/ exposed pad
Package size	8x8 mm	8x8 mm
Package thickness	Max 0.9mm	Max 0.9mm
Pin count	68pin	68pin
Pin pitch	0.4mm	0.4mm
Exposed-PAD size	Typ:8.2 x 8.2 mm	Typ:6.2 x 6.2 mm

Table 1-2 UPD720202K8 package outline specification

Item	New	Current
Package type	48pin QFN w/ exposed pad	48pin QFN w/ exposed pad
Package size	7x7mm	7x7mm
Package	Max 0.9mm	Max 0.9mm
thickness		
Pin count	48pin	48pin
Pin pitch	0.5mm	0.5mm
Exposed-PAD size	Typ:5.7x5.7mm	Typ:5.7x5.7mm

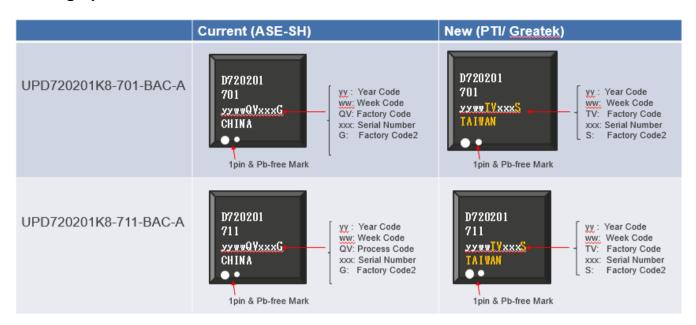
Table 1-3 UPD720210K8 package outline specification

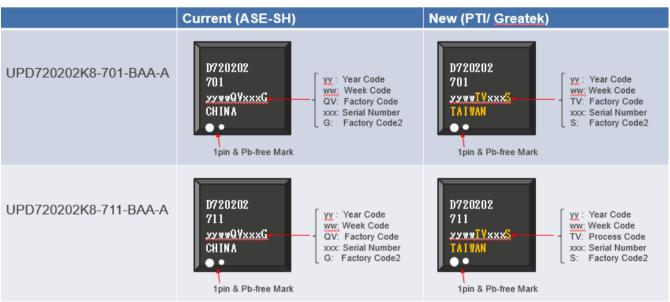
Item	New	Current
Package type	76pin QFN w/ exposed pad	78pin QFN w/ exposed pad
Package size	9x9 mm	9x9 mm
Package thickness	Max 0.9mm	Max 0.9mm
Pin count	78pin	76pin
Pin pitch	0.4mm	0.4mm
Exposed-PAD size (*1)	Typ:5.2x5.2 mm	Typ:5.3x5.3 mm

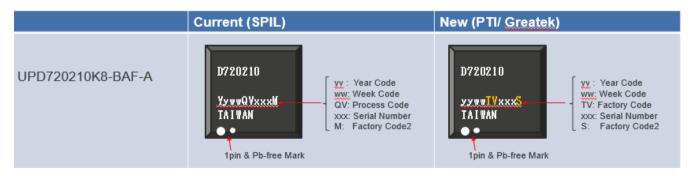
 $(^*\mbox{1})$ There is a difference of dimension. We judge that the impact on the customer's implementation is minor.



Marking Specification:









IC Tray Specification:

Table 2-1 UPD720201K8 IC Tray specification ASH-SH(P/N JT5080801-01 REV.B)

	Z	1.8
	Zw	10.35
Position dimension of cells	ZL	10.00
Position difficultion of cells	eW	12.80
	eL	11.80
	Sw	92.1
Thickness (mm) H1		7.62
Number of cells		10
Number of cells	NL	26
Maximum storage No. IC/Tray		260
Material		PPE
Heat resistant temperature		150°CMAX
Surface resistance		≥1 0X105&< 1 0X1012 ohm/sq

Greatek (P/N EA70808-10)

	Z	1.5
Position dimension of cells	Zw	10.75
	ZL	11.90
Position difficultion of cells	eW	10.40
	eL	10.40
	Sw	92.1
Thickness (mm)		7.62
Number of cells	Nw	12
Number of cells	NL	29
Maximum storage No. IC/Tray		348
Material		PPE
Heat resistant temperature		150°CMAX
Surface resistance		1X105~1X1012 OHM/SQ

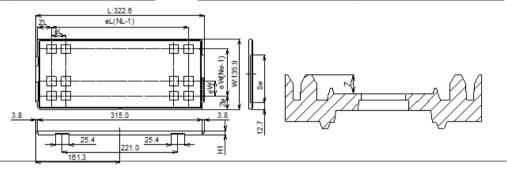


Table 2-2 UPD720202K8 IC Tray specification

ASH-SH(P/N J1500/0/01-01 REV.B)				
	Z	1.8		
	Zw	10.35		
Position dimension of cells	ZL	10.00		
Fosition difficultion of cells	eW	12.80		
	eL	11.80		
	Sw	92.1		
Thickness (mm)	H1	7.62		
Number of cells	Nw	10		
Number of cens	NL	26		
Maximum storage No. IC/Tray		260		
Material		PPE		
Heat resistant temperature		150°CMAX		
Surface resistance		≥1.0X10 ⁵ &< 1.0X10 ¹² ohm/sq		

Greatek(P/N EAG0707-10)

	7	4.4	
	Z	1.4	
	Zw	11.55	
Position dimension of cells	ZL	11.80	
Position difficultion of cells	eW	9.40	
	eL	9.40	
	Sw	92.1	
Thickness (mm) H1		7.62	
Number of cells	Nw	13	
Number of cells	NL	32	
Maximum storage No. IC/Tray		416	
Material		PPE	
Heat resistant temperature		150°CMAX	
Surface resistance		1X105~9X109 OHM/SQ	

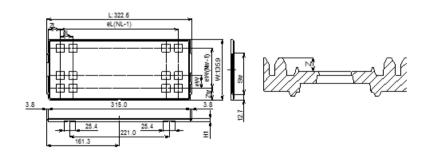


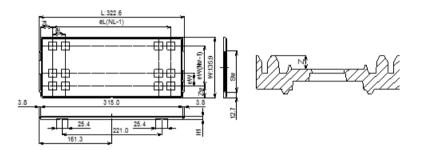


Table 2-3 UPD720210K8 IC Tray specification SPIL(P/N 14L-0909-B19)

`	,	
	Z	1.8
	Zw	10.35
Position dimension of cells	ZL	10.00
Fosition dimension of cens	eW	12.80
	eL	11.80
	Sw	92.1
Thickness (mm)	H1	7.62
Number of cells	Nw	10
Nulliber of cells	NL	26
Maximum storage No. IC/Tray		260
Material		MPPO
Heat resistant temperature		150°C MAX
Surface resistance		≥1.0X10 ⁵ & ≤1.0X10 ¹¹ ohm/sq

Greatek(P/N QJ-003)

	Ζ	1.55	
	Zw	10.35	
Position dimension of cells	ZL	10.00	
Position difficultion of cells	eW	12.80	
	eL	11.80	
	Sw	92.1	
Thickness (mm) H1		7.62	
Number of cells	Nw	10	
Number of cells	NL	26	
Maximum storage No. IC/Tray		260	
Material		PPE + Carbon Fiber	
Heat resistant temperature		24 HOURS 150°C	
Surface resistance		1X10 ⁵ ~9X10 ⁹ Ω/sq	



Product List:

Booking P/N	New site combination	Current site combination
UPD720201K8-701-BAC-A	ASSY:Greatek, FT:Sigurd-UTC	ASSY:ASE-SH, FT:GTC
UPD720201K8-711-BAC-A	ASSY:Greatek, FT:Sigurd-UTC	ASSY:ASE-SH, FT:GTC
UPD720202K8-701-BAA-A	ASSY:Greatek, FT:Sigurd-UTC	ASSY:ASE-SH, FT:GTC
UPD720202K8-711-BAA-A	ASSY:Greatek, FT:Sigurd-UTC	ASSY:ASE-SH, FT:GTC
UPD720210K8-BAF-A	ASSY:Greatek, FT:Sigurd-UTC	ASSY:SPIL, FT:GTC