

# PRODUCT CHANGE NOTIFICATION

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PCN No:	PCN-SM2003-2
Announcement date	2020-11-25
Last order placement date for products from Nantong (All, <u>except</u> MB85RC16PNF & MB85RC64PNF)	2021-01-29
Last shipment data from Nantong (All, <u>except</u> MB85RC16PNF & MB85RC64PNF)	2021-05-28
Last order placement date for products from Nantong (MB85RC16PNF & MB85RC64PNF)	2021-04-28
Last shipment date from Nantong (MB85RC16PNF & MB85RC64PNF)	2021-12-24

1. Affected Product(s):

SOP8

MB85RXXXXPNF-G-JNERE1, MB85RXXXXPNF-G-JNE1

For details please see attached affected part number list.

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2. Description of Change

Backend Factory (assembly and final testing) of SOP8 will be transferred from Nantong factory to Hefei factory.

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3. Reason of Phasing Out:

Tongfu Microelectronics decided to shrink SOP8 line of their Nantong Factory and transfer the manufacturing line to their Hefei Factory.

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4. Substitute

Products after transfer

- Part Number (P/N) is will not be changed.
- The Schedule of shipment from Hefei (New line):
  - Reliability Evaluation result will be available by Jan. 28<sup>th</sup>, 2021
  - Production Starts from June 2021
  - Please provide us number of samples need by Dec 18<sup>th</sup>, 2020  
(Number of samples will be limited up to 10 pcs. per each P/N)
- Changing points
  1. Manufacturer: Tongfu Micro Electronics Nantong line → Hefei line
  2. Resin: Halogen-containing resin → Halogen-free resin  
(Environmentally friendly)
  3. Outer Lead Plating: Sn-Bi plating → Pure Sn plating
- \* No changes to package appearance
- \* For details see document 'PCN\_TFME SOP8 Hefei Transfer Explanation for Customers' for other detailed changing point.

Please give us a feedback about this PCN if you decide to place a last time order for Nantong products (please see the last order placement due date).

**Without any feedback by due date, we will assume that you do not require last time build from Nantong factory and deem to agree to transfer products to Hefei factory.**

Contact details for any further information:

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MB85RS16PNF-G-JNE1
MB85RC04PNF-G-JNE1
MB85RC04PNF-G-JNERE1
MB85RC04VPNF-G-JNE1
MB85RC04VPNF-G-JNERE1
MB85RC04VSPNF-G-JNE1
MB85RC04VSPNF-G-JNERE1
MB85RC128APNF-G-JNE1
MB85RC128APNF-G-JNERE1
MB85RC128PNF-G-JNE1
MB85RC128PNF-G-JNERE1
MB85RC16PNF-G-JNE1
MB85RC16PNF-G-JNERE1
MB85RC16SPNF-G-JNE1
MB85RC16SPNF-G-JNERE1
MB85RC16VPNF-G-JNE1
MB85RC16VPNF-G-JNERE1
MB85RC16VPNF-G-JNN1E1
MB85RC16VPNF-G-JNN1ERE1
MB85RC16VSPNF-G-JNN1E1
MB85RC16VSPNF-G-JNN1ERE1
MB85RC1MTPNF-G-JNE1
MB85RC1MTPNF-G-JNERE1
MB85RC256VPNF-G-JNE1
MB85RC256VPNF-G-JNERE1
MB85RC512TPNF-G-JNE1
MB85RC512TPNF-G-JNERE1
MB85RC64APNF-G-JNE1
MB85RC64APNF-G-JNERE1
MB85RC64PNF-G-JNE1
MB85RC64PNF-G-JNERE1
MB85RC64VPNF-G-JNE1
MB85RC64VPNF-G-JNERE1
MB85RS128APNF-G-JNE1
MB85RS128APNF-G-JNERE1
MB85RS128BPNF-G-JNE1
MB85RS128BPNF-G-JNERE1
MB85RS16NPNF-G-JNE1
MB85RS16NPNF-G-JNERE1

MB85RS16NSPNF-G-JNE1
MB85RS16NSPNF-G-JNERE1
MB85RS16PNF-G-JNERE1
MB85RS1MTPNF-G-JNE1
MB85RS1MTPNF-G-JNERE1
MB85RS256APNF-G-JNE1
MB85RS256APNF-G-JNERE1
MB85RS256BPNF-G-JNE1
MB85RS256BPNF-G-JNERE1
MB85RS512TPNF-G-JNE1
MB85RS512TPNF-G-JNERE1
MB85RS64APNF-G-JNE1
MB85RS64APNF-G-JNERE1
MB85RS64PNF-G-JNE1
MB85RS64PNF-G-JNERE1
MB85RS64SPNF-G-JNE1
MB85RS64SPNF-G-JNERE1
MB85RS64TPNF-G-JNE2
MB85RS64TPNF-G-JNERE2
MB85RS64TUPNF-G-JNE2
MB85RS64TUPNF-G-JNERE2
MB85RS64VPNF-G-JNE1
MB85RS64VPNF-G-JNERE1
MB85RS64VSPNF-G-JNE1
MB85RS64VSPNF-G-JNERE1

# Tongfu Microelectronics 150mil SOP8 Package Transfer from Nantong Factory to Hefei Factory

November 25<sup>th</sup>  
Fujitsu Semiconductor Memory Solution Limited

- 1. Summary of Transfer
- 2. Schedule
- 3. Changing Point
- 4. About Evaluation
- 5. Request
- 6. About Tongfu Microelectronics Hefei Factory

# 1. Summary

## ■ Affected Product

SOP8 package product (size: 150mm) currently manufactured at Tongfu Microelectronics (Nantong Factory).

## ■ Transfer Process

Transfer assembly and final test process of SOP8 package products to Hefei from Nantong Factory

## ■ Reason for Transfer

Tongfu Microelectronics decided to shrink SOP8 line of their Nantong Factory and transfer the manufacturing line to their Hefei Factory.

## ■ Overall schedule (explained in next slide)

- MB85RC16/RC64 will shrink assembly line to 1 line and manufacture until December 2021.
- The other products will be transferred from February 2021 as soon as they are ready.

# 2. Transfer Schedule

	2020		2021													
	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
Nantong All except MB85RC16/64			△Last Order								△Final Shipment					
MB85RC16/64							△Last Order			Final Shipment△						
Hefei Factory			△Reliability Evaluation													
						△Evaluation Sample		△Production start								
			Transfer PN as soon as agreed by customer													

## Nantong Factory

- All except MB85RC16/RC64

Last Order Date : Jan. 29<sup>th</sup>, 2021      Last Shipment : May 28<sup>th</sup>, 2021

- MB85RC16/RC64

Last Order Date : April 28<sup>th</sup>, 2021      Last Shipment : Dec. 24<sup>th</sup>, 2021

※ Hefei product will be used for the order placed after the last order date or request date after last shipment date

## Hefei Factory

- Reliability Evaluation : Jan. 29<sup>th</sup>, 2021      Production start : June 2021
- Sample Request: Please send request by Dec. 18<sup>th</sup>, 2020

# 3. Changing Point

## ■ Summary

	Current (Nantong)	After Transfer(Hefei)
Subcontractor	Nantong Tongfu Microelectronics (Nantong Factory)	Hefei Tongfu Microelectronics (Hefei Factory)
Part Number	No Change	
Package Outline	No Change	
Lead frame	No material change, inner pattern will be changed	
Mold resin	MB85RS64TPNF-G-JNE2/JNERE2 MB85RS64TUPNF-G-JNE2/JNERE2	No Change
	All the other P/N	Change (Halogen free)
Die Attach Paste	MB85RC512TPNF-G-JNE1/JNERE1 MB85RC1MTPNF-G-JNE1/JNERE1 MB85RS512TPNF-G-JNE1/JNERE1 MB85RS1MTPNF-G-JNE1/JNERE1	Change (Ag paste)
	All the other P/N	No Change (Ag paste)
Outer Plating	MB85RS64TPNF-G-JNE2/JNERE2 MB85RS64TUPNF-G-JNE2/JNERE2	No Change(Pure-Sn)
	All the other PN : Sn-Bi Plating	Pure Sn Plating
Product Appearance	No change	
MSL	No change at JEDEC MSL Level3	

# 4. Evaluation

## ■ Reliability Evaluation

- Reliability evaluation will be available by end of Jan 2021.
- Evaluation criteria will be shown on below table.

Item	Temperature Condition
High Temperature Storage	150°C
Unbiased HAST	130°C/85%RH
Temperature Cycle	-65°C~150°C

- Following plating related test result will be available by Dec 2020
  - Solder wettability test
  - Whisker evaluation test

# 5. Request

## ■ Request

- Please provide FSM number of samples need from each customer by Dec 18<sup>th</sup>, 2020. It will be free of charge, but the number of samples will be limited up to 10 pcs per PN.

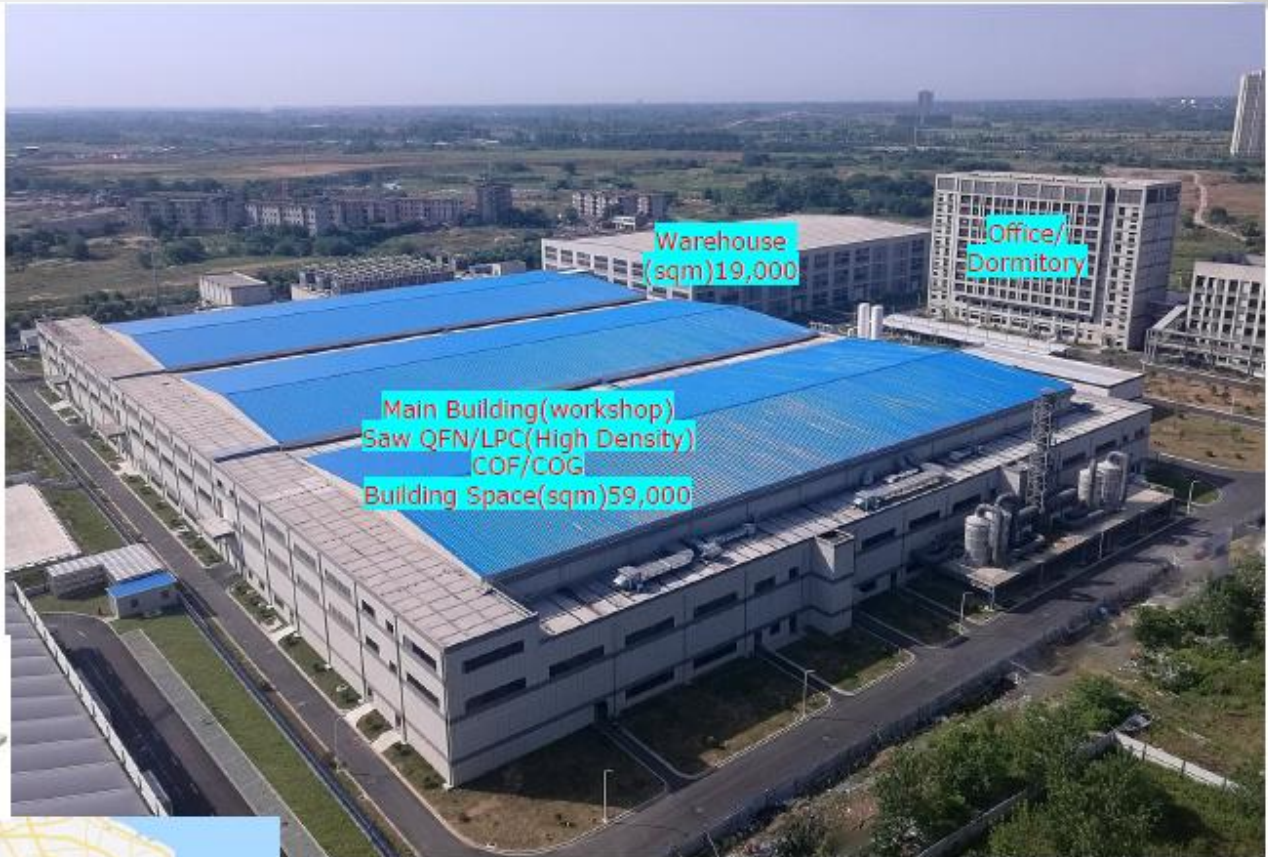
- Please issue last time order by following dates

  - All PN except MB85RC16/64: Jan 29<sup>th</sup>, 2021(JPT)

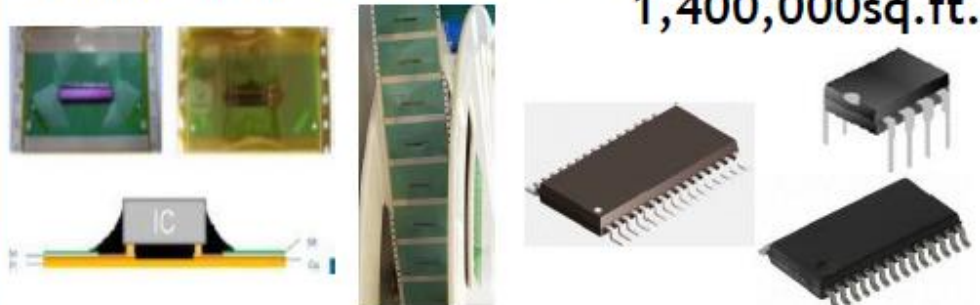
  - MB85RC16/64: Apr 28<sup>th</sup>, 2021(JPT)

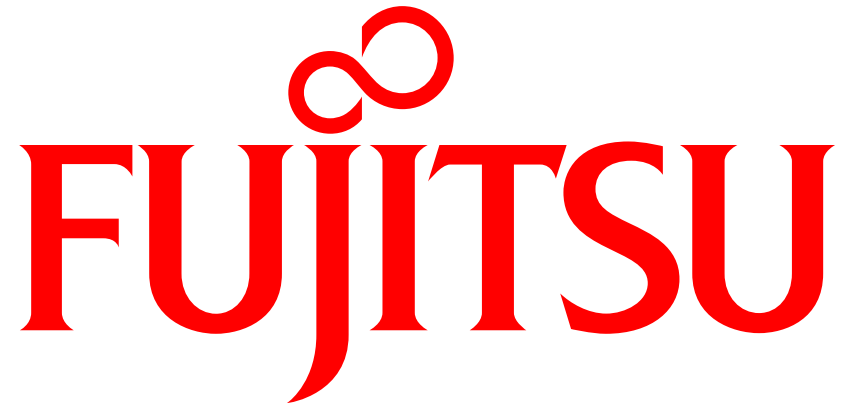
*※Please note that if FSM does not receive order or feedback by due date, FSM will deem that customers have agreed to transfer.*

# 6. About Tongfu Microelectronics Hefei Factory



安徽省合肥市经济开发区卫星路578号  
1,400,000sq.ft.





shaping tomorrow with you

Rutronik Electronics Asia HK Limited - 54/F, Hopewell Centre, 183 Queen's Road East, Wan Chai, Hong Kong

Jabil Circuit (Guangzhou) Limited  
128 Juncheng Road  
Guangzhou Economic & Technical Dist.  
510530 GUANGDONG PROVINCE  
CHINA**Product / Process Change Notice**

Customer Number	Date
10170158	30.11.2020

**Manufacturer:** FUJITSU  
**Manufacturer Reference:** SM2003-2  
**Subject:** Backend Factory transfer from Nantong to Hefei plant

Ladies and Gentlemen,

in perspective of continuous improvements with regard to quality, reliability and competitiveness, the manufacturer of the product(s) has informed us about one or more product change(s)

Please find the description of the details on our internet page:

<https://www.rutronik24.com/mypcn/52276963-26F6-4792-B045-1824D6575412>

In case you do not have access to Internet, we will be happy to provide you a hardcopy of the documentation.

We strongly recommend to you, to check the impact of the PCN with regard to your product planning as well as to the performance to your product.

For further questions, please don't hesitate to contact our sales representative, resp. our Product Marketing consultant(s) listed below

Best regards  
Your Rutronik Team



**Product Marketing**

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**According to our records, the following product(s) have been delivered to you by Rutronik :**

Customer Article No	Manufacturers Part No	product Description	Rutronik No
GE003962-012-LF	MB85RS128APNF-G-JNE1	MB85RS128APNF-G-JNE1	ICPROM9322