To Customers;

EOL plan of Parallel EEPROM products

Affected Part Name:

R1EV58064B series

R1EV58256B series

R1EV5801MB series

December 27, 2021

Standard Products Department 2
Standard Products Business Division
IoT and Infrastructure Business Unit

Renesas Electronics Corporation

No. 21-0012A

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Contents

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EOL plan of Parallel EEPROM products

Renesas has decided the EOL of all 15 Parallel EEPROM products, being assembled at MTEX Vietnam.
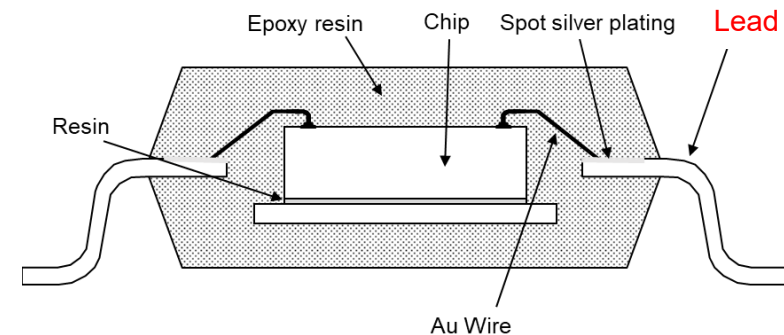
1. Affected Orderable Part Name

  Please refer to page 4.

2. Background of EOL

  Due to combined reason of EOL announcement from the lead-frame supplier, and obsolescence of manufacturing equipment at MTEX Vietnam.

3. EOL schedule

  Dec. 2021   EOL announcement
  Jun. 2022   LTB Order
  Jun. 2023   Last Time Shipment

Epoxy resin   Chip   Spot silver plating   Lead

Resin

Au Wire

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Parallel EEPROM : Affected Orderable Part Name

Orderable Part Name	Density (Kbit)	Package Type	Packing Type	Replaceable Part
R1EV58064BDANBI#B2	64	DIP-28pin	Magazine (Tube)	Refer to page 5.
R1EV58064BDARBI#B2	64	DIP-28pin	Magazine (Tube)	Refer to page 5.
R1EV58064BSCNBI#B2	64	SOP-28pin	Magazine (Tube)	Refer to page 6.
R1EV58064BSCNBI#S2	64	SOP-28pin	Tape & Reel	Refer to page 6.
R1EV58064BSCRBI#B2	64	SOP-28pin	Magazine (Tube)	Refer to page 6.
R1EV58064BSCRBI#S2	64	SOP-28pin	Tape & Reel	Refer to page 6.
R1EV58064BTCNBI#B2	64	TSOP-28pin	Tray	Refer to page 7.
R1EV58064BTCRBI#B2	64	TSOP-28pin	Tray	Refer to page 7.
R1EV58256BDANBI#B2	256	DIP-28pin	Magazine (Tube)	Refer to page 8.
R1EV58256BSCNBI#B2	256	SOP-28pin	Magazine (Tube)	Refer to page 9.
R1EV58256BSCNBI#S2	256	SOP-28pin	Tape & Reel	Refer to page 9.
R1EV58256BTCNBI#B2	256	TSOP-28pin	Tray	Refer to page 10.
R1EV58256BTDRBI#B2	256	TSOP-32pin	Tray	No compatible package (Refer to page 11.)
R1EV5801MBSDRDI#B0	1024	SOP-32pin	Magazine (Tube)	No compatible package (Refer to page 12.)
R1EV5801MBTDRDI#B0	1024	TSOP-32pin	Tray	No compatible package (Refer to page 13.)

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Cross-ref. for replaceable part

64Kbit : DIP-28pin

Compatible package available from Microchip

Manufacturer	Renesas Electronics		Microchip
Part Name	R1EV58064BDANBI#B2	R1EV58064BDARBI#B2	AT28C64B-15PU
Packing	Magazine (Tube)		←
Density	64Kbit		←
Package	DIP-28pin		←
Operating Temp.	-40°C ~ 85°C		←
Supply Voltage (V)	2.7 ~ 5.5		4.5 ~ 5.5
Access speed (ns)	100 (~4.5V) / 70 (4.5V~)		150
E/W, Retention	100K cycles / 10 years		←
Special Pin function	R/B-pin	R/B-pin, RES-pin	None

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Cross-ref. for replaceable part

64Kbit : SOP-28pin

Compatible package available from Microchip

Manufacturer	Renesas Electronics		Microchip	
Part Name	R1EV58064BSCNBI#B2	R1EV58064BSCRBI#B2	AT28C64B-15SU	AT28BV64B-20SU
Packing	← Magazine (Tube)		←	←
Part Name	R1EV58064BSCNBI#S2	R1EV58064BSCRBI#S2	AT28C64B-15SU-T	AT28BV64B-20SU-T
Packing	Tape & Reel		←	←
Density	64Kbit		←	←
Package	SOP-28pin		←	←
Operating Temp.	-40°C ~ 85°C		←	←
Supply Voltage (V)	2.7 ~ 5.5		4.5 ~ 5.5	2.7 ~ 3.6
Access speed (ns)	100 (~4.5V) / 70 (4.5V~)		150	200
E/W, Retention	100K cycles / 10 years		←	←
Special Pin function	R/B-pin	R/B-pin, RES-pin	None	None

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Cross-ref. for replaceable part

64Kbit : TSOP-28pin

Compatible package available from Microchip

Manufacturer	Renesas Electronics		Microchip	
Part Name	R1EV58064BTCNBI#B2	R1EV58064BTCRBI#B2	AT28C64B-15TU	AT28BV64B-20TU
Packing	Tray		←	←
Density	64Kbit		←	←
Package	TSOP-28pin		←	←
Operating Temp.	-40°C ~ 85°C		←	←
Supply Voltage (V)	2.7 ~ 5.5		4.5 ~ 5.5	2.7 ~ 3.6
Access speed (ns)	100 (~4.5V) / 70 (4.5V~)		150	200
E/W, Retention	100K cycles / 10 years		←	←
Special Pin function	R/B-pin	R/B-pin, RES-pin	None	None

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Cross-ref. for replaceable part

256Kbit : DIP-28pin

Compatible package available from Microchip

Manufacturer	Renesas Electronics	Microchip
Part Name	**R1EV58256BDANBI#B2**	**AT28C256-15PU**
Packing	Magazine (Tube)	←
Density	256Kbit	←
Package	DIP-28pin	←
Operating Temp.	-40°C ~ 85°C	←
Supply Voltage (V)	2.7 ~ 5.5	4.5 ~ 5.5
Access speed (ns)	120 (~4.5V) / 85 (4.5V~)	150
E/W, Retention	100K cycles / 10 years	10K cycle / 10 years
Special Pin function	None	←

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Cross-ref. for replaceable part

256Kbit : SOP-28pin

Compatible package available from Microchip

Manufacturer	Renesas Electronics	Microchip	
Part Name	R1EV58256BSCNBI#B2	AT28C256E-15SU	AT28BV256-20SU
Packing	Magazine (Tube)	←	←
Part Name	R1EV58256BSCNBI#S2	AT28C256E-15SU-T	AT28BV256-20SU-T
Packing	Tape & Reel	←	←
Density	256Kbit	←	←
Package	SOP-28pin	←	←
Operating Temp.	-40°C ~ 85°C	←	←
Supply Voltage (V)	2.7 ~ 5.5	4.5 ~ 5.5	2.7 ~ 3.6
Access speed (ns)	120 (~4.5V) / 85 (4.5V~)	150	200
E/W, Retention	100K cycles / 10 years	←	10K cycles / 10 years
Special Pin function	None	←	←

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Cross-ref. for replaceable part

256Kbit : TSOP-28pin

Compatible package available from Microchip

Manufacturer	Renesas Electronics	Microchip	
Part Name	**R1EV58256BTCNBI#B2**	**AT28C256E-15TU**	**AT28BV256-20TU**
Packing	Tray	←	←
Density	256Kbit	←	←
Package	TSOP-28pin	←	←
Operating Temp.	-40°C ~ 85°C	←	←
Supply Voltage (V)	2.7 ~ 5.5	4.5 ~ 5.5	2.7 ~ 3.6
Access speed (ns)	120 (~4.5V) / 85 (4.5V~)	150	200
E/W, Retention	100K cycles / 10 years	←	10K cycles / 10 years
Special Pin function	None	←	←

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Cross-ref. for replaceable part

256Kbit : TSOP-32pin

No compatible package (No 32pin TSOP, but 28pin TSOP from Microchip)

Manufacturer	Renesas Electronics	Microchip
Part Name	**R1EV58256BTDRBI#B2**	**(None)**
Packing	Tray	(None)
Density	256Kbit	(None)
Package	TSOP-32pin	(None)
Operating Temp.	-40°C ~ 85°C	(None)
Supply Voltage (V)	2.7 ~ 5.5	(None)
Access speed (ns)	120 (~4.5V) / 85 (4.5V~)	(None)
E/W, Retention	100K cycles / 10 years	(None)
Special Pin function	R/B-pin, RES-pin	(None)

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Cross-ref. for replaceable part

1Mbit : SOP-32pin

No compatible package (No 32pin SOP, but 32pin TSOP from Microchip)

Manufacturer	Renesas Electronics	Microchip
Part Name	**R1EV5801MBSDRDI#B0**	**(None)**
Packing	Tube	(None)
Density	1Mbit	(None)
Package	SOP-32pin	(None)
Operating Temp.	-40°C ~ 85°C	(None)
Supply Voltage (V)	2.7 ~ 5.5	(None)
Access speed (ns)	250 (~4.5V) / 150 (4.5V~)	(None)
E/W, Retention	10K cycles / 10 years	(None)
Special Pin function	R/B-pin, RES-pin	(None)

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Cross-ref. for replaceable part

1Mbit : TSOP-32pin

No compatible package: Same package type (TSOP-32pin) but in different dimensions

Manufacturer	Renesas Electronics	Microchip
Part Name	**R1EV5801MBTDRDI#B0**	**(AT28C010-15TU)**
Packing	Tray	←
Density	1Mbit	←
Package	TSOP-32pin (8x12.4mm)	TSOP-32pin (8x18.4mm)
Operating Temp.	-40°C ~ 85°C	←
Supply Voltage (V)	2.7 ~ 5.5	4.5 ~ 5.5
Access speed (ns)	250 (~4.5V) / 150 (4.5V~)	150
E/W, Retention	10K cycles / 10 years	←
Special Pin function	R/B-pin, RES-pin	None

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