

Dear customer

LAPIS Semiconductor Co., Ltd. ("LAPIS Semiconductor"), on the 1st day of October, 2020, implemented the incorporation-type company split (shinsetsu-bunkatsu) in which LAPIS established a new company, LAPIS Technology Co., Ltd. ("LAPIS Technology") and LAPIS Technology succeeded LAPIS Semiconductor's LSI business.

Therefore, all references to "LAPIS Semiconductor Co., Ltd.", "LAPIS Semiconductor" and/or "LAPIS" in this document shall be replaced with "LAPIS Technology Co., Ltd."

Furthermore, there are no changes to the documents relating to our products other than the company name, the company trademark, logo, etc.

Thank you for your understanding.

LAPIS Technology Co., Ltd.

October 1, 2020

RE : Last-Buy Notification for On-chip emulator, “nanoEASE”

Dear Customer:

We need your attention to this Last-Buy notification for nanoEASE.

Our last acknowledgement date of your purchase orders for the on-chip emulators will be September 30, 2020 in Japan time, please order EASE1000 V2 over thereafter.

For more details, please refer to another document, “Migration of On-chip Emulator from nanoEASE to EASE1000 V2”.

1. APPLICABLE PRODUCTS

nanoEASE

2. LAST DAY FOR YOUR PURCHASE ORDERS

September 30, 2020

3. HOW TO RESPOND

nanoEASE you may now possess could be kept on use even beyond the above-mentioned Last Buy date.

Please migrate to EASE1000 V2 when replacement is required due to expansion, damage, or maintenance.

To continue using nanoEASE, please use the software development tools described in “4. Software Development Tools”.

When replacing with EASE1000 V2, please refer to the another document “Migration of On-chip Emulator from nanoEASE to EASE1000 V2”.

Sincerely yours,

Marketing Team

MCU Business Promotion Division

LSI Development Headquarters

LAPIS Semiconductor Co., Ltd.

RE : Migration of On-chip Emulator from nanoEASE to EASE1000 V2

Dear Customer:

This document is to explicate a way for you to migrate your on-chip emulator for Lapis original U8/U16 microprocessor from nanoEASE (to cease on sale as of September 30, 2020) toward EASE1000 V2.

1. APPLICABLE PRODUCTS

nanoEASE

2. HOW TO RESPOND

Please read “3. Applicable target microcontrollers of on-chip emulators” and later, and confirm that you can replace it with your current environment before purchasing EASE1000 V2 and replacing it.

3. APPLICABLE TARGET MICROCONTROLLERS OF ON-CHIP EMULATORS

The following table shows the microcontrollers supported by nanoEASE and EASE1000.

EASE1000 V2 can support all microcontrollers that nanoEASE supported.

On-chip Emulator	U8				U16	
	ML610Q11x ML610Q172 ML610Q173 ML610Q174	ML610Q10x ML610Q178 ML610Q380	ML610Q304 ML610Q359 ML610Q360 ML610Q419	ML610Q400(*) ML610Q700	ML620Q100 ML620Q400 ML620Q500	ML62Q1000
nanoEASE	Yes	–	Yes	–	Yes	–
EASE1000 V2	Yes	Yes	Yes	Yes	Yes	Yes

* Except ML610Q419

4. FLASH WRITER (MWU16, FWuEASE)

EASE1000 V2 can't be used with FWuEASE. Please use MWU16.

MWU16 is installed by downloading the latest development environment (U8 / U16 Development Tools) from our support site and upgrading the version.

On-chip Emulator	MWU16	FWuEASE
nanoEASE	–	Yes
EASE1000 V2	Yes	–

5. PHYSICAL DIMENSIONS AND CONNECTORS

Although the external shapes of EASE1000 V2 and nanoEASE are different, there is no difference in the connector position and pin arrangement of the target board.

Item	nanoEASE	EASE1000 V2
Interface Connector	14-pin 2.54mm-pitch connector Recommended Part Numbers:HIF3FC-14PA-2.54DSA	

6. PINS

The pin names differ between nanoEASE and EASE1000 V2. Before use, check the pin names and pin functions in the EASE1000 V2 User's Manual.

Pin No#	nanoEASE	EASE1000 V2	Note
3	N/C	V _{PP}	EASE1000 V2 supplies voltage from this pin as a power supply for programming to the target LSI flash memory. When replacing from nanoEASE, there is no need to connect this signal to the target LSI.
5	RESET_N	RST_OUT/SCK	Although the pin names are different, there is no problem with the same connection as the previous nanoEASE.
7	TEST	SDATA	Although the pin names are different, there is no problem with the same connection as the previous nanoEASE.

7. VOLTAGE LEVEL OF POWER SUPPLY TO YOUR TARGET LSI

The voltage level of power supply to your target LSI of nanoEASE is different from that of EASE1000 V2. Please make sure if it would not affect your ROM writer hardware.

Item	nanoEASE	EASE1000 V2
Target LSI positive power supply (VTref) voltage	3.3V	1.6V to 5.5V
Target LSI operation voltage		

8. HOW TO CONNECT ON-CHIP EMULATOR TO YOUR TARGET LSI

As above-stated, pin-layout with nanoEASE and EASE1000 V2 are all the same. However, dependent upon your production environment, parasitic capacitance and resistance on board with your target LSI thereon may somehow influence to behaviors of your emulator so that manuals of your target LSI are thoroughly checked.

9. CONTACT

Any questions you may have about this information are requested to ask of your local ROHM's Sales Office, or to make use of "Inquiry Mail Form for Microcontroller" below;
https://www.lapis-semi.com/ssl/mylapis/inquiryMC_E.html

Sincerely yours,

Marketing Team
 MCU Business Promotion Division
 LSI Development Headquarters
 LAPIS Semiconductor Co., Ltd.