

# RENESAS TECHNICAL UPDATE

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Renesas Electronics Corporation

Product Category	MPU/MCU		Document No.	TN-RA*-A0100A/E	Rev.	1.00
Title	The restriction of disconnecting OCD emulator		Information Category	Technical Notification		
Applicable Product	Each Group of RA6M1, RA6M2, RA6M3, RA6M4, RA6M5, RA6E1, RA6E2, RA6T1, RA6T2, RA6T3, RA4M1, RA4M2, RA4M3, RA4E1, RA4E2, RA4T1, RA4W1	Lot No.	Reference Document	Refer table at the end of this document		
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The restriction of disconnecting debugger is added as follows.

- 2.11.4 Restrictions on Disconnecting OCD Emulator ( for RA6M1, RA6M2, RA6M3, RA6T1, RA4M1, RA4W1 )
- 2.13.3 Restrictions on Disconnecting OCD Emulator ( for RA6M4, RA6M5, RA6E1, RA6T2, RA4M2, RA4M3 )
- 2.12.4 Restrictions on Disconnecting OCD Emulator ( for RA6E2, RA6T3, RA4E2, RA4T1 )
- 2.12.3 Restrictions on Disconnecting OCD Emulator ( for RA4E1 )

After disconnecting OCD emulator, a device can't fully transfer to Software Standby mode.  
On this situation, power consumption doesn't decrease as expected, because some low-consumption features don't work.

## Reference Document Table

Product	Document name
RA6M1 Group	Renesas RA6M1 Group User's Manual: Hardware Rev.1.20
RA6M2 Group	Renesas RA6M2 Group User's Manual: Hardware Rev.1.20
RA6M3 Group	Renesas RA6M3 Group User's Manual: Hardware Rev.1.20
RA6M4 Group	Renesas RA6M4 Group User's Manual: Hardware Rev.1.30
RA6M5 Group	Renesas RA6M5 Group User's Manual: Hardware Rev.1.30
RA6E1 Group	Renesas RA6E1 Group User's Manual: Hardware Rev.1.10
RA6E2 Group	Renesas RA6E2 Group User's Manual: Hardware Rev.1.20
RA6T1 Group	Renesas RA6T1 Group User's Manual: Hardware Rev.1.20
RA6T2 Group	Renesas RA6T2 Group User's Manual: Hardware Rev.1.30
RA6T3 Group	Renesas RA6T3 Group User's Manual: Hardware Rev.1.10
RA4M1 Group	Renesas RA4M1 Group User's Manual: Hardware Rev.1.00
RA4M2 Group	Renesas RA4M2 Group User's Manual: Hardware Rev.1.30
RA4M3 Group	Renesas RA4M3 Group User's Manual: Hardware Rev.1.40
RA4E1 Group	Renesas RA4E1 Group User's Manual: Hardware Rev.1.10
RA4E2 Group	Renesas RA4E2 Group User's Manual: Hardware Rev.1.20
RA4T1 Group	Renesas RA4T1 Group User's Manual: Hardware Rev.1.10
RA4W1 Group	Renesas RA4W1 Group User's Manual: Hardware Rev.1.00