

RC-G4B

RC-G8B

Instruction

Manual

1st Edition

SUISEI ELECTRONICS SYSTEM CO., LTD.

Thank you for choosing RC-G4B/RC-G8B.

If you have any inquiry regarding the product, please contact us or our sales agency.

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1st Edition : issued in March 2018

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- This product is a writing device only for one chip microcomputer with built-in flash ROM, EPROM and onetime PROM produced by Renesas Electronics Corporation. It can not be used for writing to other devices and for other purposes.
- Warranty period for this product is one year after from the date of the purchase. Fault(s) caused by the defect(s) in manufacturing will be repaired without charge during this period. Please notify the local distributor or us.
Please note a fault of the consumables such as a socket and a switch will be repaired at your expense. A fault of MCU device written by this product and an error caused by the fault accordingly will not be warranted.
- In case this product is used for mass production, please make sure to consider usage environment, etc. in advance by yourself and to check the reliability.
- In case this product is used in Japan, Electrical Appliance Regulations and electromagnetic interference measures will not be applied.
This product obtains neither safety standard such as UL nor standard such as IEC. Please be aware of this point when you bring it outside Japan.
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For inquiries we will accept by e-mail.

To 6-5-24, Tsurumi, Tsurumi-ku, Osaka City 538-0053, Japan
Susei Electronics System Co.,Ltd.
E-mail : support@susei.co.jp
<http://www.susei.co.jp/>

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1. Overview

RC-G4B/RC-G8B is a gang write unit that uses EFP-RC2 or EFP-LC and EFP-RC serial MCU programmers (Hereinafter EFP body) to connect 1 to 8 units.

By using RC-G4B/RC-G8B, you can write and read at the same time up to 4 or 8 Renesas Electronics flash memory built-in MCU and QzROM built-in MCU.

Figure 1.1 shows the outline drawing of RC-G4B, and Figure 1.2 shows the outline drawing of RC-G8B.

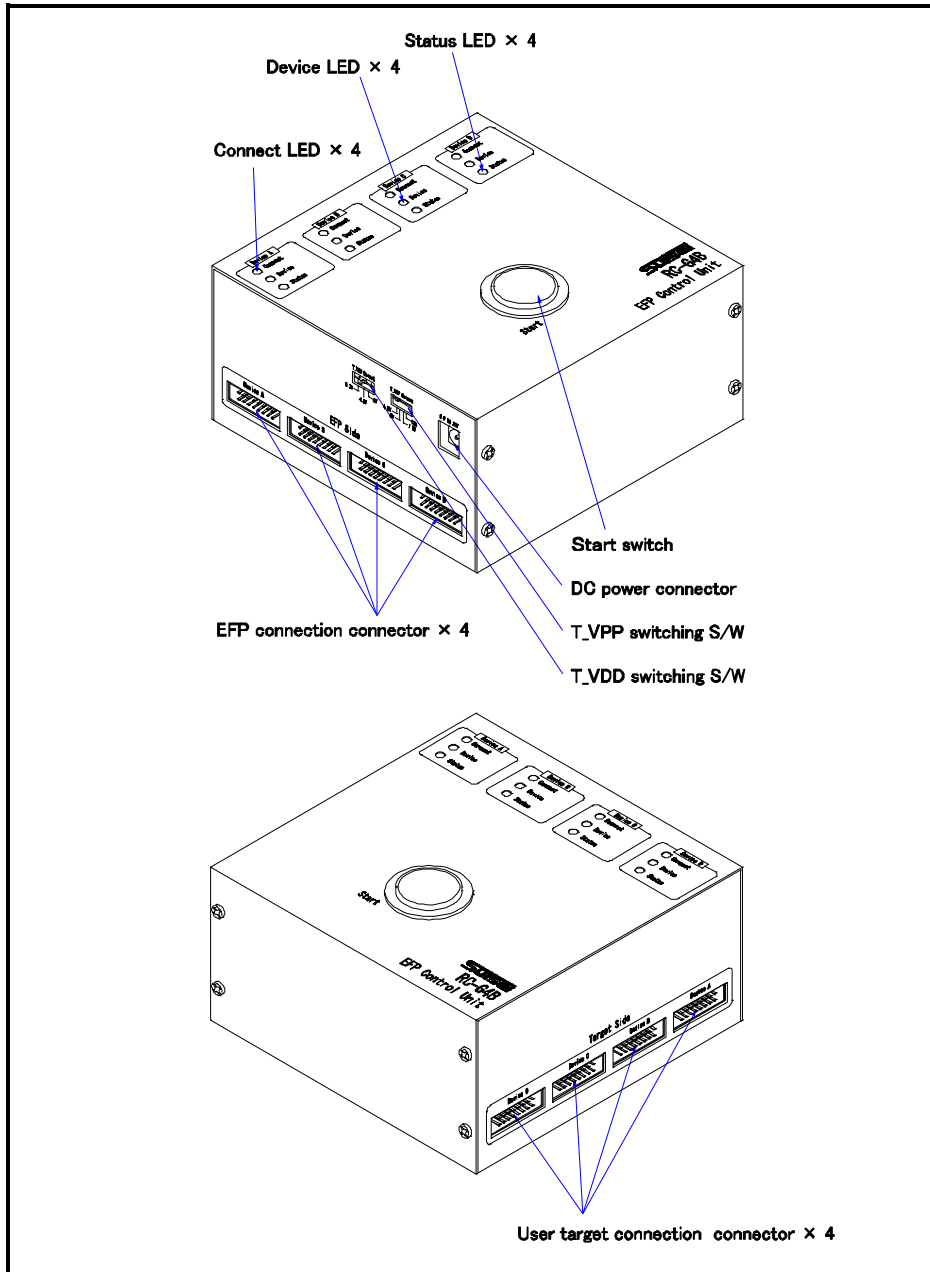


Figure 1.1 RC-G4B External Figures

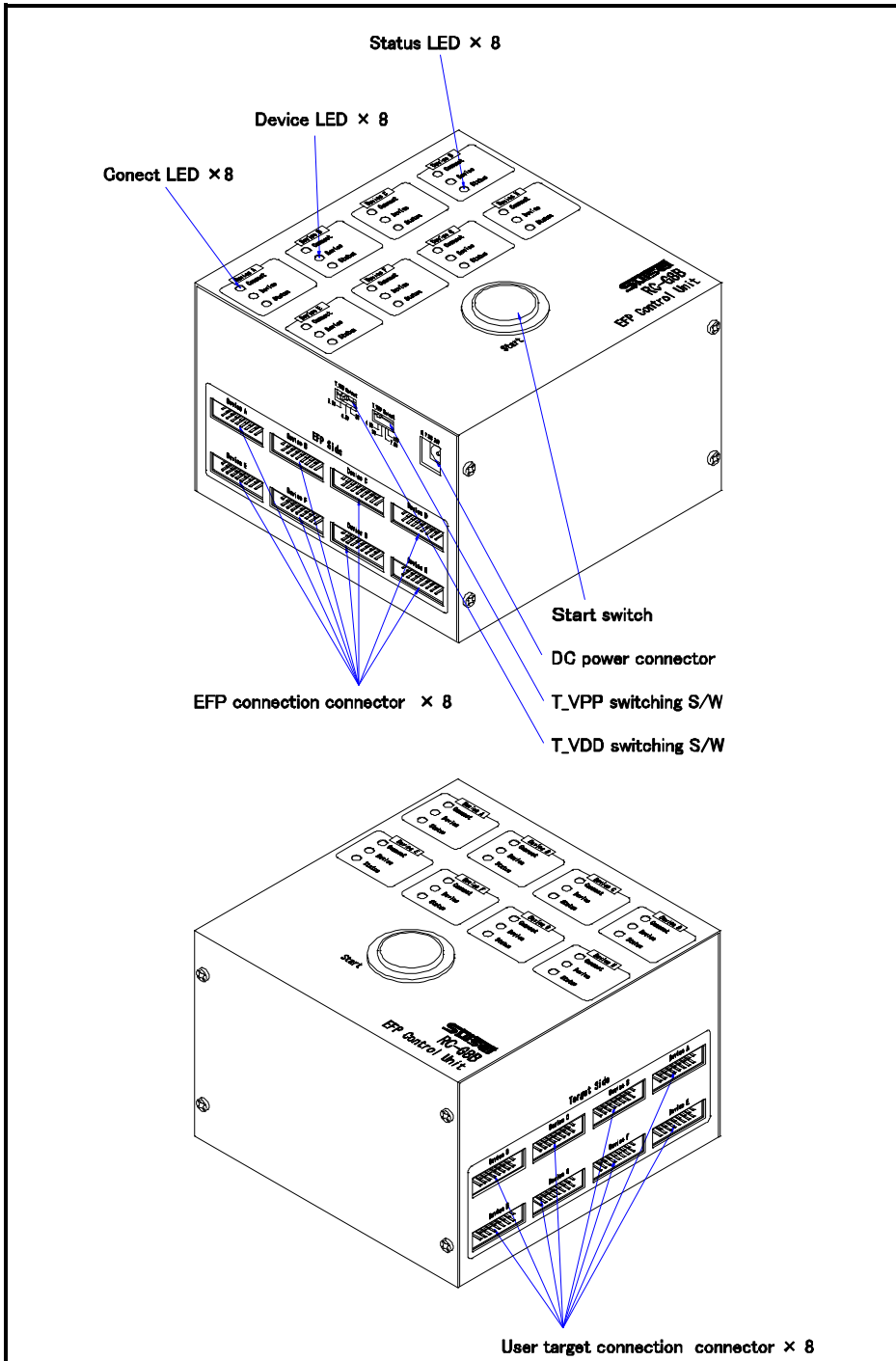


Figure 1.2 RC-G8B External Figures

2. Panel name, function description

The names and functional descriptions of each LED, switch, and connector are shown in Figure 2.1 and Figure 2.2.

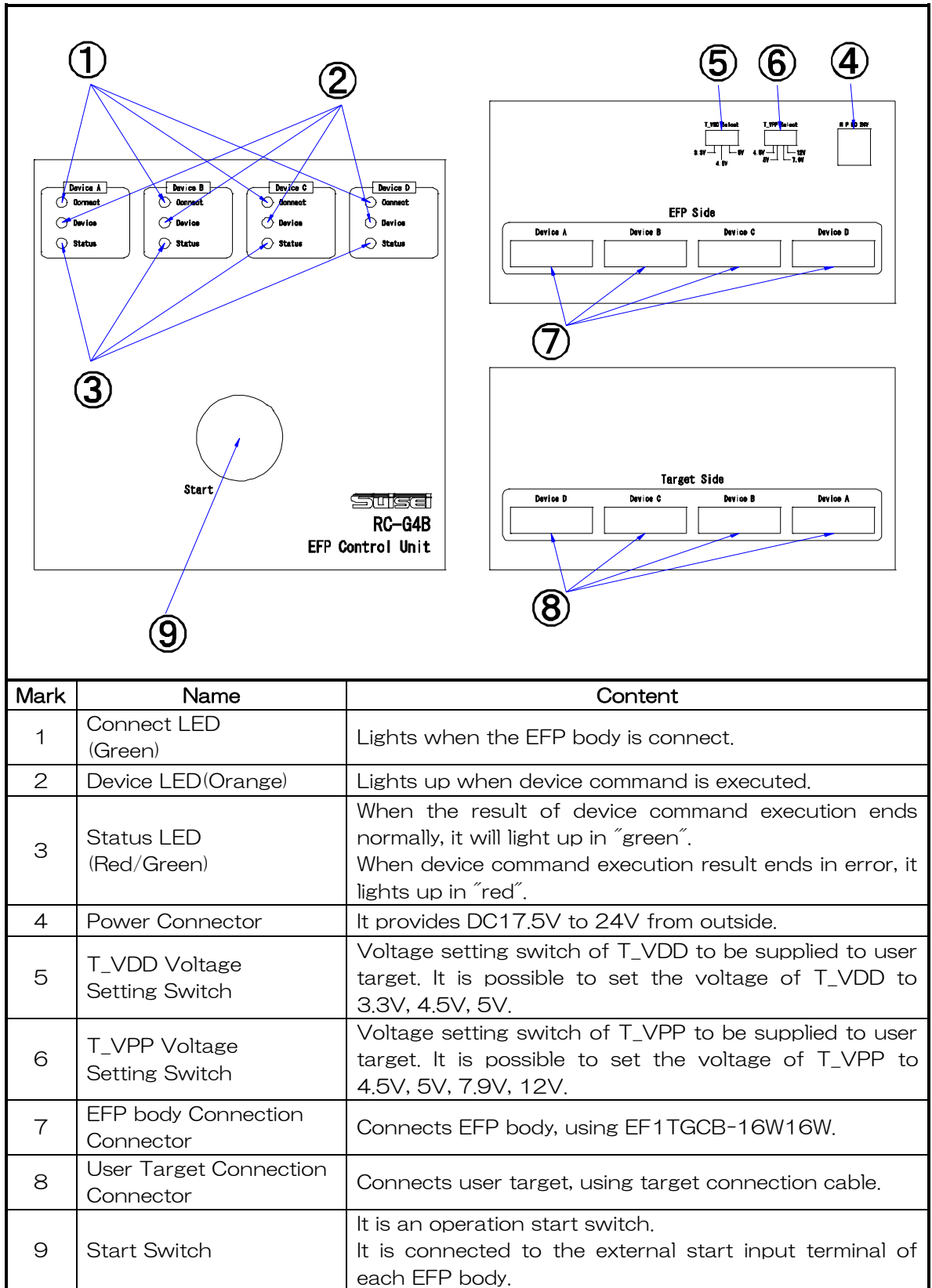


Figure 2.1 RC-G4B Panel Figure

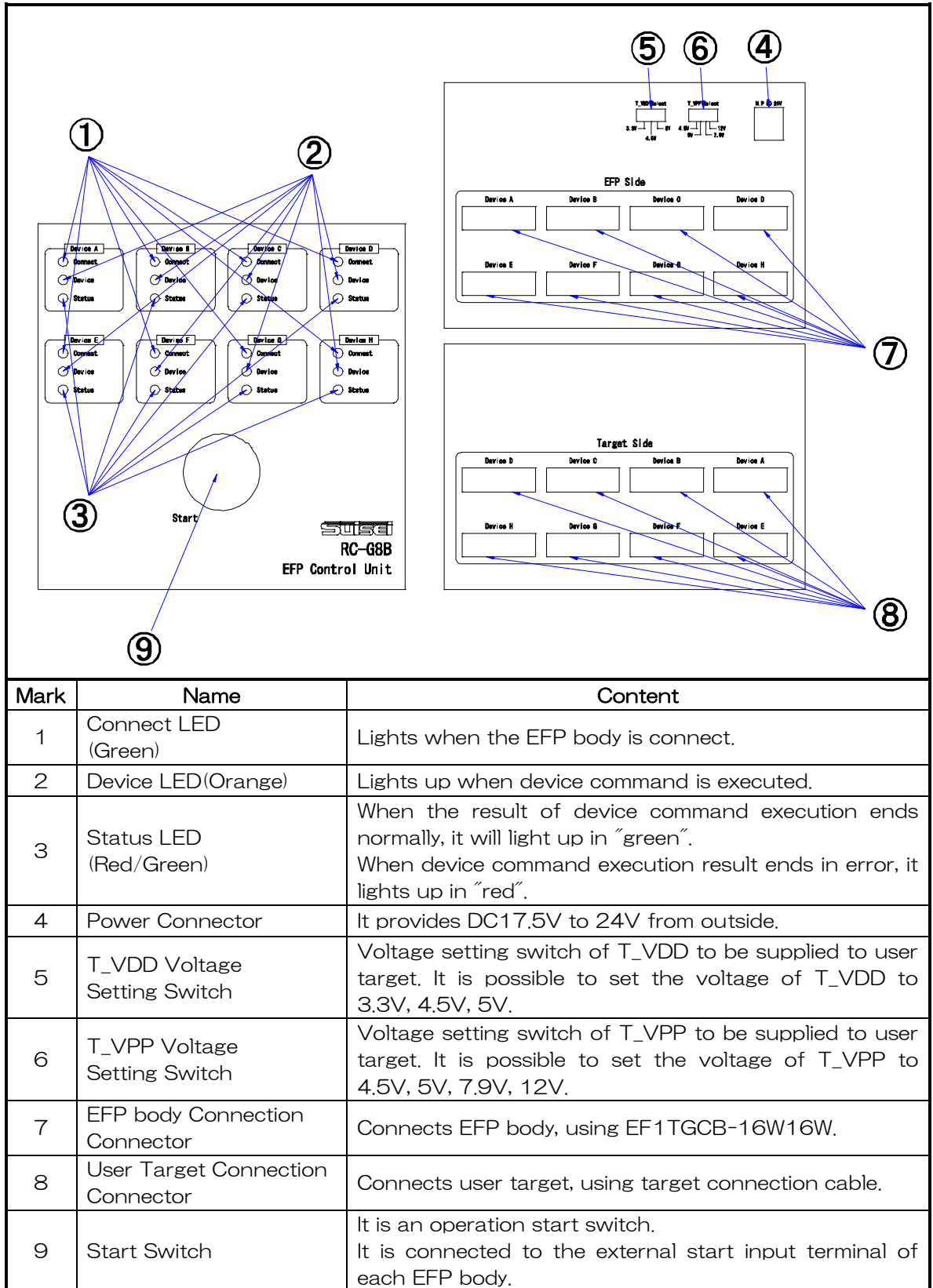


Figure 2.2 RC-G8B Panel Figure

3. How to connect

Figure 3.1 and Figure 3.2 show how to connect the RC-G4B and RC-G8B.

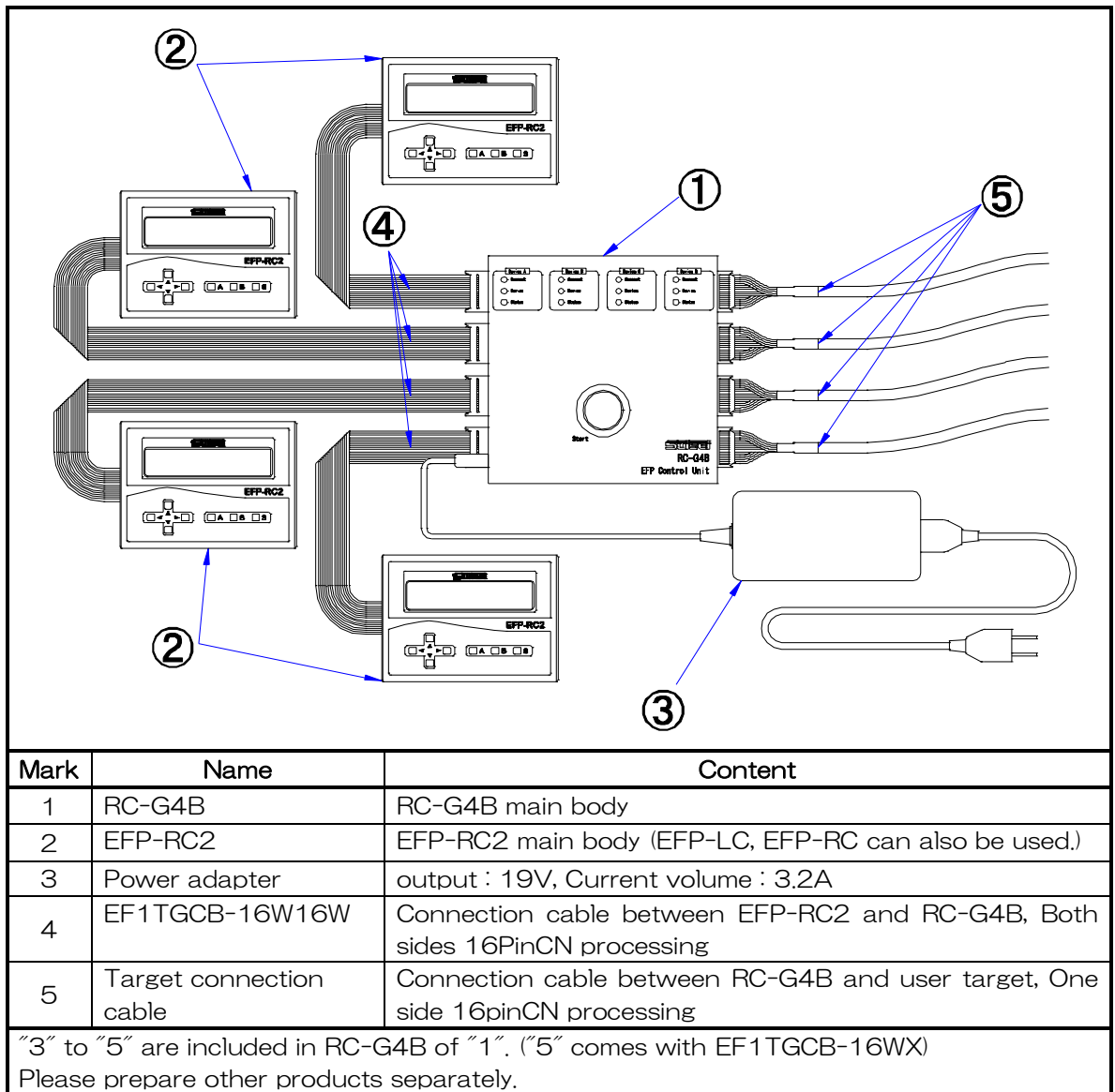


Figure 3.1 RC-G4B Connection diagram

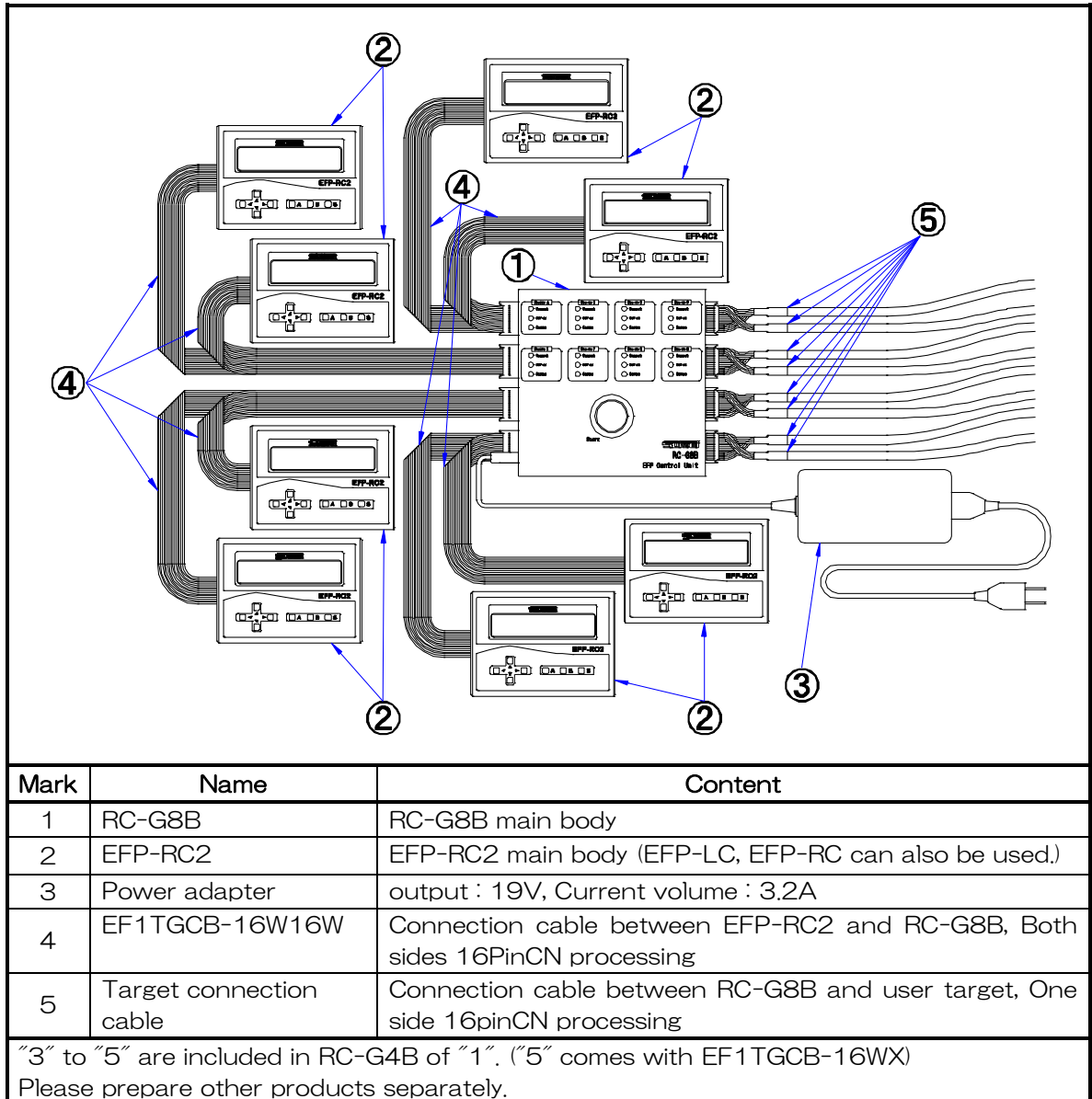


Figure 3.2 RC-G8B Connection diagram

3.1 Notes

Note1 : Please connect RC-G4B/RC-G8B and EFP body with the power supply turned off.

Note2 : When the Device LED (Orange) of the RC-G4B/RC-G8B is lit, the connection cables to the EFP body and the user target board is energized, so do not insert / eject cables.

Note3 : Power off the RC-G4B/RC-G8B and EFP body before removing the EFP body and the RC-G4B/RC-G8B.

Note4 : Power supply to EFP body and user target is supplied from RC-G4B/RC-G8B.
The supply current to the user target is 50mA.

4. Lighting pattern of Displayed LED

Figure 4.1 shows lighting pattern of displayed LED.

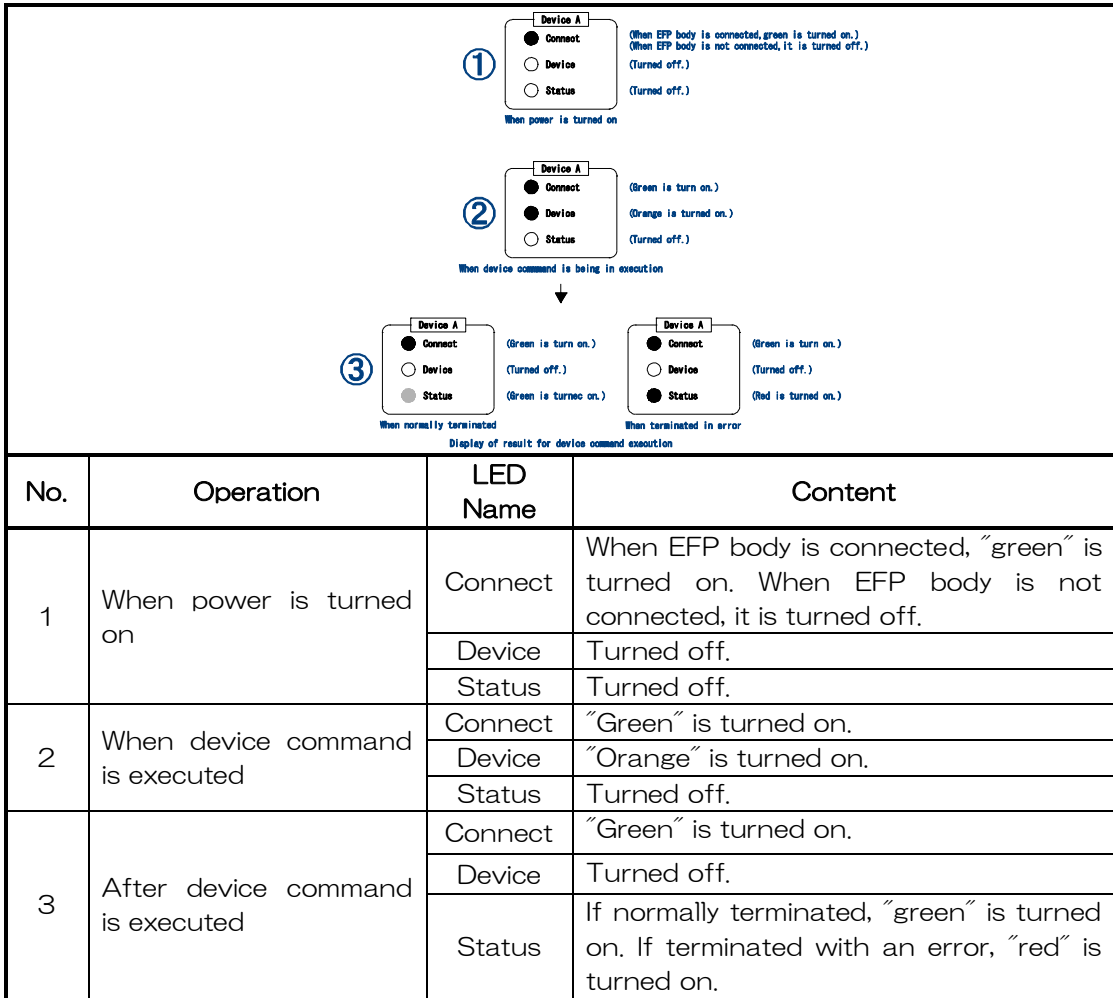


Figure 4.1 Lighting Pattern of Displayed LED

5. T_VDD and T_VPP voltage setting switches

Figure 5.1 shows silk figure of T_VDD and T_VPP voltage setting switch.

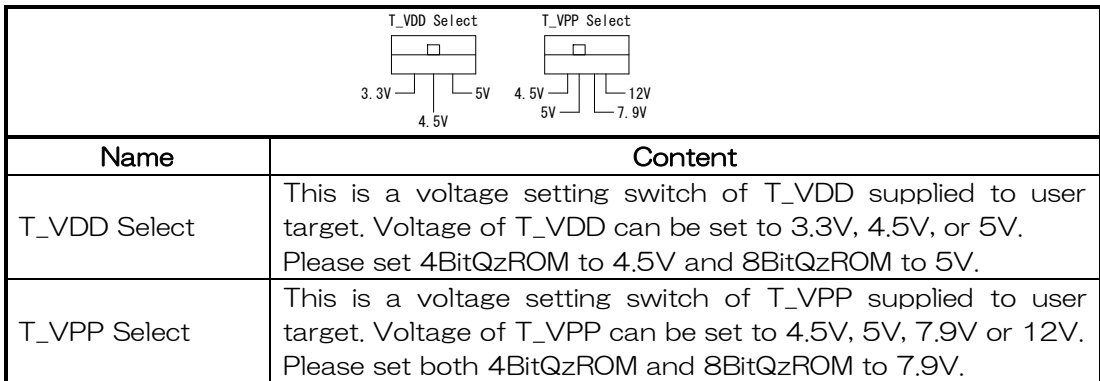


Figure 5.1 Silk Figure of T_VDD and T_VPP voltage setting switch

Note1 : When Device LED (orange) of RC-G4B/RC-G8B main body is turned on, please do not switch over T_VDD and T_VPP voltage setting switch.

6. Connector for user target connection

Figure 6.1 shows pin allocation figure of user target connection connector.
Table 6.1 shows terminal table of user target connection connector.

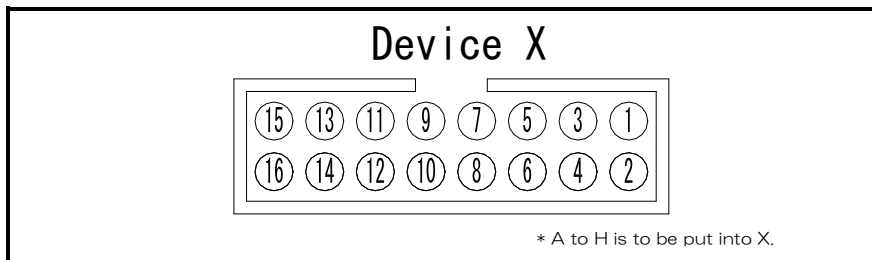


Figure 6.1 Pin allocation figure of target connection connector

Table 6.1 Terminal table of user target connector

Pin NO.	Terminal Name	Input - Output	Explanation
1	GND		GND
2	(N.C)	—	
3	T_VPP	Output	Target writing power output. 4.5V, 5V, 7.9V or 12V.
4	T_VDD	Output	Target power output. 3.3V, 4.5V or 5V.
5	(N.C)	—	
6	(N.C)	—	
7	(N.C)	—	
8	T_PGM/OE	Output	Target writing-reading pulse.
9	T_SCLK	Output	Clock for synchronous communications
10	T_TXD	Output	Serial send data
11	T_RXD	Input	Serial receive data
12	T_Busy	Input	Target busy signal
13	(N.C)	—	
14	T_Reset	Output	Target reset control signal
15	(N.C)	—	
16	GND		GND

Note1 : I/O is the direction from RC-G4B/RC-G8B.

7. How to operate

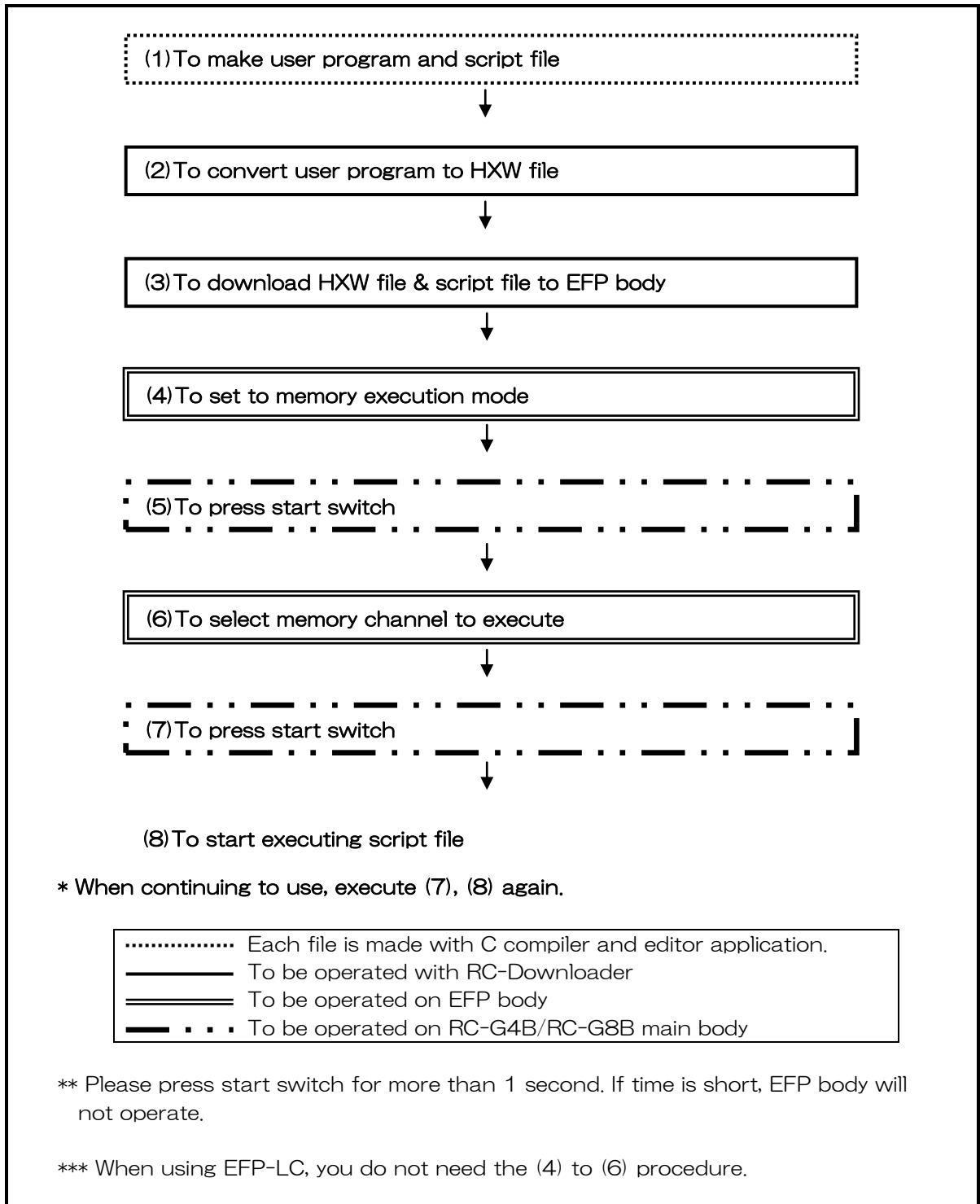
Below are a series of operation methods of RC-G4B/RC-G8B.

When EFP-RC2 or EFP-RC is used for RC-G4B/RC-G8B, it is necessary to set to memory execution mode.

How to set the memory execution mode is described in the following items.

*EFP-RC2 : "EFP-RC2 Instruction Manual '5.9 How to use user memory files' "

*EFP-RC : "EFP-RC Operation Manual 'S" key operation at menu' "



8. Specifications

Table 8.1 Specifications

External dimensions (Protruding parts not included)	RC-G4B	140(W) × 140(D) × 70(H) [mm]
	RC-G8B	140(W) × 140(D) × 95(H) [mm]
Weight	RC-G4B	About 879 g
	RC-G8B	About 1091 g
Supported programmer	EFP-RC2、EFP-LC、EFP-RC	

8.1 Notes

Products of the following serial No. can not be used with this device.

- * EFP-LC : Products before R2D00091 (products shipped before April 2012)
- * EFP-RC : Products before 5A00049 (products shipped before February 2005)